PLANTS OF ILLINOIS.

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CATALOGUE

—OF THE—

PHÆNOGAMOUS

—AND—

VASCULAR CRYPTOGAMOUS

PLANTS OF ILLINOIS.

NATIVE AND INTRODUCED.

by Harry N. Patterson

COLUMBIA COLLEGE LIBRARY NEW YORK

OQUAWKA, ILL.:
"SPECTATOR" PRINT.
1876.

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PREFACE.

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The following Catalogue is intended to be an almost complete list of the Phænogamous and higher Cryptogamous Plants of Illinois, with the more common introduced plants. The latter are printed in italics.

My own botanical explorations in the State having been confined to Henderson county, the Catalogue is made up mostly from lists and notes furnished by the following well known Illinois botanists :

M. S. Bebb, Fountaindale, Winnebago Co.;
Dr. Geo. Vasey, U. S. Botanist ;
Miss Mary E. Holmes, Rockford ;
Miss M. E. B. Norton, Rockford ;
Prof. H. H. Babcock, Chicago :
Henry F. Munroe, Esq., Chicago ;
Rev. E. J. Hill, Englewood, Cook Co. ;
Dr. Frederick Brendel, Peoria ;
Prof. John Wolf, Canton, Fulton Co. ;
Prof. S. A. Forbes, Normal, McLean Co. ;
Dr. S. B. Mead, Augusta, Hancock Co. ;
Elihu Hall, Esq., Athens, Menard Co ;
Dr. J. Schneck, Mt. Carmel, Wabash Co. ;
Prof. G. H. French, Irvington, Washington Co.;

And by Dr. Geo. Engelmann of St. Louis, and the late Dr. I. A. Lapham of Milwaukee.

The following 14 species are given on the authority of Gray's Manual : Draba cuneifolia, Nutt. ; Chrysogonum Virginianum, L. ; Bidens Beckii, Torr. ; Verbesina Virginica, L. ; Bumelia lanuginosa, Pers. ; Utricularia biflora, Lam. ; Stachys hyssopifolia, Mx. ; Chamælirium luteum, Gray ; Heteranthera limosa, Vahl. ; Carex decomposita, Muhl. ; Trisetum palustre, Torr. ; Erianthus alopecuroides, Ell. ; Houstonia minima, Beck.

Plants confined to the Northern part of the State are marked N.; Central C., and Southern S. In many cases the information at hand was not sufficient to indicate the frequency of the plant, but where it seemed to be rare I have usually named all the counties wherein it has been found by the botanists named above.

When unacquainted with the habitat of the plant I have usually copied from Gray's Manual; the arrangement of species in the same excellent work has also been followed closely.

List of Natural Orders, with number of Indigenous and Introduced Plants found in Illinois, and whole number of species native in the Northern U. S., Kentucky and Virginia, as given in Gray's Manual, 5th edition, 8th issue :

Orders.	Ill. Plants. Indigenous.	Ill. Plants. Introduced.	Indigenous in Northern U. S.
Ranunculaceae	39	2	55
Magnoliaceae	3		5
Anonaceae	1		1
Menispermaceae	3		3
Berberidaceae	3		5
Nymphæaceae	6		6
Sarraceniaceae	1		2
Papaveraceae	2	1	2
Fumariaceae	6		7

Orders.	Ill. Plants. Indigenous.	Ill. Plants. Introduced.	Indigenous in Northern U. S.
Cruciferae	26	7	46
Capparidaceae	1	2	1
Violaceae	11		17
Cistaceae	4		8
Droseraceae	2		4
Hypericaceae	15	1	19
Elatinaceae	2		1
Caryophyllaceae	14	7	35
Portulacaceae	3	1	4

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Orders.	Ill. Plants. Indigenous.	Introduced.	Indigenous in Northern U. S.
Malvaceae	7	5	12
Tiliaceae	2		2
Camelliaceae			2
Linaceae	3		3
Geraniaceae	7		9
Rutaceae	2		3
Anacardiaceae	6		6
Vitaceae	6		8
Rhamnaceae	5		6
Celastraceae	3		3
Sapindaceae	6		10
Polygalaceae	8		14
Leguminosae	69	4	101
Rosaceae	50		72
Calycanthaceae			3
Saxifragaceae	12		35
Crassulaceae	3		7
Hamamelaceae	2		3
Halorageae	7		9
Onagraceae	18		29
Melastomaceae	1		3
Lythraceae	6		9
Loasaceae	1		1
Cactaceae	1		3
Passifloraceae	1		2
Cucurbitaceae	2		3
Umbelliferae	25	3	39
Araliaceae	4		6
Cornaceae	9		11
Caprifoliaceae	14		29
Rubiaceae	18		20
Valerianaceae	4		7
Dipsaceae		1	
Compositae	188	12	289
Lobeliaceae	7		13
Campanulaceae	5		5
Ericaceae	14		68
Galacineae			1
Aquifoliaceae	2		11
Ebenaceae	1		1
Sapotaceae	2		2
Styracaceae			5
Plantaginaceae	5	2	7
Plumbaginaceae			1
Primulaceae	10	1	16
Lentibulaceae	5		13
Bignoniaceae	4		4
Orobanchaceae	5		5
Scrophulariaceae	38	4	54
Acanthaceae	3		3
Verbenaceae	8		9
Labiatae	37	6	51
Borraginaceae	11	5	16
Hydrophyllaceae	8		12
Polemoniaceae	8		14
Convolvulaceae	13	2	18
Solanaceae	6	5	7
Gentianaceae	12		25
Loganiaceae	1		5
Apocynaceae	4		4
Asclepiadaceae	19		23

Orders.	Ill. Plants. Indigenous.	Introduced.	Indigenous in Northern U. S.
Oleaceae	6		9
Aristolochiaceae	3		6
Nyctaginaceae	1		1
Phytolaccaceae	1		1
Chenopodiaceae	4	7	12
Amarantaceae	3	4	5
Polygonaceae	21	8	27
Lauraceae	2		5
Thymeleaceae	1		1
Elæagnaceae	1		2
Santalaceae	1		3
Loranthaceae	1		1
Saururaceae	1		1
Ceratophyllaceae	1		1
Callitrichaceae	4		4
Podostemaceae			1
Euphorbiaceae	20	2	29
Empetraceae			2
Urticaceae	13	2	15
Platanaceae	1		1
Juglandaceae	8		9
Cupuliferae	16		24
Myricaceae	1		3
Betulaceae	5		11
Salicaceae	19		22
Coniferae	11		21
Araceae	5		7
Lemnaceae	5		9
Typhaceae	3		5
Naiadaceae	18		29
Alismaceae	11		14
Hydrocharidaceae	3		3
Burmanniaceae			1
Orchidaceae	28		57
Amaryllidaceae	3		4
Hæmodoraceae	1		4
Bromeliaceae			1
Iridaceae	3	1	7
Dioscoreaceae	1		1
Smilaceae	5		10
Liliaceae	32		57
Juncaceae	13		31
Pontederiaceae	4		4
Commelynaceae	5		6
Xyridaceae	1		5
Eriocaulonaceae			5
Cyperaceae	131		248
Gramineae	99	21	177
Total Phænogamous	1376		2275
Equisetaceae	8		11
Filices	36		57
Lycopodiaceae	5		19
Hydropterides	1		3
Total	1426	116	2365
No. enumerated in Lapham's List, (1856)	1052	75	
No. species added in this Catalogue	374	41	

No. plants found only in the Northern third of the State.....156
" Northern plants extending into or through centre of State 57—Northern plants: 213
" confined to Southern third of State.....156
" Southern plants extending into or through centre of State 128—Southern plants: 284
" confined to Western portion of the State..... 20
" " " central " 11
" plants (mostly maritime) found only near Lake Michigan.. 14——Of limited range: 542
" plants ranging throughout the State..... 787
" " whose range is not yet satisfactorily determined..... 97

I shall be happy to receive, from persons who have collected, or may in future collect in Illinois, information concerning:

I. Any native or thoroughly naturalized plant not given in this Catalogue, with a specimen of the plant:

II. Extension of the range of plants marked N., C., S., &c.—if only to a single county;

III. Notes on any peculiarities of our plants, new hybrids, etc., not mentioned in our Botanies.—These additions and corrections will be issued in a supplement, at the end of each collecting season.

OQUAWKA, ILLS., March 1, 1876. HARRY N. PATTERSON.

CATALOGUE.

RANUNCULACEÆ.

CLEMATIS

Viorna, L. C. & S.

Along Crooked Creek and Illinois River near Beardstown, Mead. Wabash county, Schneck. Near Carbondale, Jackson county, and borders of lakes in Union, Forbes. Rare.

Pitcheri, T. & G.

River banks. Near Jo'iet, Will county, Munroe, and common in Kankakee, Hill; Fulton, Mead; Marion and Sangamon, Bebb; Wabash, Schneck. From Henderson county (rare) southward along the Mississippi. Rather rare.

Virginiana, L.

Banks of streams. Rare northward.

ANEMONE

patens, L. var. Nuttalliana, Gr. N.

Prairies of the extreme north, where it is not rare: McHenry county, Vasey; Winnebago, Bebb; Jo Daviess, Brendel.

Caroliniana, Walt.

Prairies and barrens. Ogle county, Bebb; and southward. Scarce.

cylindrica, Gray.

Dry prairies and barrens. Infrequent.

Virginiana, L.

With the last species and more common.

Pennsylvanica, L.

Low grounds, borders of woods, &c. Common.

nemorosa, L.

Woods. Infrequent.

HEPATICA

triloba, Chaix.

Hillsides. McHenry, Vasey: near Joliet, Babcock; along the Wabash River, Forbes, Schneck. Rare.

acutiloba, DC.

Hillsides. Common.

THALICTRUM

anemonoides, Michx.

Woods. Common.

dioicum, L.

Dry woods, &c. Frequent.

purpurascens, L.

Low grounds, borders of thickets, &c. Common.

var. ceriferum, C. F. Austin.

With the last, near Chicago, Babcock, and Kankakee, Hill.

Cornuti, L.

Low grounds. Frequent.

TRAUTVETTERIA

palmata, Fisch. & Meyer.

In moist ground along a branch of the Sangamon River, near the Mounds, about three miles North-east of Beardstown, Cass county, Mead.

RANUNCULUS

divaricatus, Schrank. C. & N.

Ponds. Frequent in Mississippi bottoms, Henderson county: Hancock, Mead; Menard, Hall: and northward. Scarce.

aquatilis, L., v. trichophyllus, Chx.

Ponds near Chicago, Babcock: McHenry county, Vasey; Winnebago, Bebb; Wabash, Schneck. Scarce.

multifidus, Pursh.

Ponds, throughout the State. Common.

var. terrestris, Gray. N.

Hyde Park near Chicago, Babcock.

oblongifolius, Ell. S.

Wet prairie near Odin, Marion county, Bebb: St. Clair, Brendel: Jackson, Forbes. Scarce.

alismæfolius, Geyer.

Margins of ponds. Hancock county, Mead, and common in Fulton, Wo'f; St. Clair, Brendel; Washington, French.

Cymbalaria, Pursh. N–E.

Lake shore near Chicago, Babcock, and Calumet, Hill.

rhomboideus, Goldie. N.

Prairies of the extreme north. Winnebago Co., the very earliest harbinger of spring, Bebb: and McHenry, Vasey.

abortivus, L.

Damp woods along streams. Common.

var. micranthus, Gray.

With the typical form in Menard county, Hall; Marion, Bebb, and Washington, French.

sceleratus, L.

Near West Side artesian well, Chicago, Munroe.

recurvatus, Poir.

Woods. Common.

Pennsylvanicus, L.

In ditches, along streams, &c.

fascicularis, Muhl.

Dry prairies, hillsides. Common.

repens, L.

Banks of streams, wet meadows. Common.

var. HISPIDUS in Hancock and Washington.

acris, L.

Wabash county, Schneck.

MYOSURUS

minimus, L. W. & S.

Damp prairies of Hancock co., Mead; Marion, Bebb, and Washington, French. Rare.

ISOPYRUM

biternatum, T. & G.

Moist, shady places. Common.

CALTHA

palustris, L. C. & N.

Wet meadows, &c., from Fulton county (Wo'f) northward. Frequent.

AQUILEGIA

Canadensis, L.

Rocky hillsides. Common.

DELPHINIUM

Consolida, L.

Sparingly escaped from gardens.

tricorne, Michx. C. & S.

Rich prairies, Henderson Co., Peoria (Brendel) and southward. Frequent.

azureum, Michx. W.

Prairies and barrens, not rare in Henderson and Hancock counties near the Mississippi.

HYDRASTIS

Canadensis, L.

Rich woods throughout the State, but rare.

ACTÆA

spicata, L. var. rubra, Michx.

Rich woods, Hancock county, Mead, and northward. Also in Wabash, Schneck. Scarce.

alba, Bigel.

Rich woods, throughout the State.

CIMICIFUGA

racemosa, Ell.

Rich woods. St. Clair county, Vasey, Brendel; Wabash, Schneck; Winnebago, Miss Norton. Rare.

MAGNOLIACEÆ.

MAGNOLIA

acuminata, L. S.

Johnson county, Schneck; common in Union, Vasey, Forbes, Wolf.

Umbrella, Lam. S.

This species was given in Mr. I. A. Lapham's Catalogue of Illinois Plants in Trans. Ills. Ag'l Soc'y, Vol. II. He says of it:

My herbarium contains a specimen of leaves received from the late Robert Kennicott marked "No. 6, Cucumber Magnolia; Cache bottoms." As the leaves are too narrow and too much tufted at the ends of the branches to agree with M. ACUMINATA, I added to the label the specific name UMBRELLA: this is my authority for including it in the List of Illinois Plants.

Dr. Brendel has "sought for it in vain along the Cache River, where it is said to grow."

LIRIODENDRON

Tulipifera, L. S.

River banks from Jackson and Wabash counties southward.

ANONACEÆ.

ASIMINA

triloba, Dunal.

River bottoms. Lee county near Dixon, Vasey; Kankakee, Hill; rare. More common south.

MENISPERMACEÆ.

COCCULUS

Carolinus, DC. S.

Banks of streams. Wabash county, Schneck; Jackson, French; and southward.

MENISPERMUM

Canadense, L.

Banks of streams. Common.

CALYCOCARPUM

Lyoni, Nutt. S.

Jackson county, French, Forbes. Rare.

BERBERIDACEÆ.

CAULOPHYLLUM

thalictroides, Michx.

Rich woods. Frequent.

JEFFERSONIA

diphylla, Pers.

Woods. Peoria county, Brendel; Kankakee, Hill; Kane, Vasey. Rare.

PODOPHYLLUM

peltatum, L.

Rich woods. Common.

NYMPHÆACEÆ.

CABOMBA

Caroliniana, Gray. S.

Reported by Dr. Schneck as not rare in Wabash county. I have not seen specimens.

BRASENIA

peltata, Pursh.

McHenry Co., Vasey; Cook, Munroe; Cass, near Beardstown, Mead; Wabash, Schneck; Union, Forbes. Scarce.

NELUMBIUM

luteum, Willd.

Ponds, throughout the State, especially in the Mississippi bottoms. Frequent.

NYMPHÆA

tuberosa, Paine.

Ponds and sloughs. Common, especially north.

NUPHAR

advena, Ait.

Ponds and slow streams. Common.

sagittifolia, Pursh. S.

Wabash county, Schneck.

SARRACENIACEÆ.

SARRACENIA

purpurea, L. N.

Bogs near Chicago, Babcock; McHenry, Vasey.

PAPAVERACEÆ.

ARGEMONE

Mexicana, L.

Sparingly escaped from gardens to roadsides and waste places.

STYLOPHORUM

diphyllum, Nutt.

Rich woods. Near Makanda, Jackson county. French. Rare.

SANGUINARIA

Canadensis, L.

Rich woods on hillsides. Common.

FUMARIACEÆ.

ADLUMIA

cirrhosa, Raf. N.

Ogle county, Bebb; Kankakee, Hill; near Lincoln Park, Chicago, probably introduced, Babcock. Rare.

DICENTRA

Cucullaria, DC.

Rich woods on hillsides. Common.

Canadensis, DC. N.

Frequent about Lockport, Will county, Babcock.

CORYDALIS

glauca, Pursh.

Very sparingly on a sandstone cliff below Oregon, Ogle county, Bebb.

flavula, Raf. S.

Wabash county, Schneck.

aurea, Willd.

Dr. Mead collected specimens in the Mississippi bottoms, near Warsaw, with pendant pods, but without flowers; in Kankakee county Rev. Hill finds plants with mostly the minute flowers of the variety MICRANTHA, but some of the upper flowers conspicuously spurred—the pods all ascending.

var. micrantha, Engelm.

Sandy river banks, &c., throughout the State. Scarce.

NASTURTIUM

officinale, R. Br.

Northern counties, Bebb, Vasey.

sessiliflorum, Nutt. C. & S.

Henderson, Peoria and Kankakee counties, and southward. Scarce.

At Oquawka the typical form, growing in the edges of ponds, flowers in May and June, while a dwarf, much branched form, common on sand bars and low banks of the Mississippi, flowers until killed by frost in October.

obtusum, Nutt.

Menard county, Hall. Rare.

palustre, DC.

Low grounds. Common.

lacustre, Gray.

Wabash, Schneck; Sangamon, Hall; Hancock, Mead; and northward. Frequent.

Armoracia, Fries.

Escaped from gardens. Frequent.

DENTARIA

laciniata, Muhl.

Rich woods. Common.

CARDAMINE

rhomboidea, DC.

Along streams. Common.

var. purpurea, Torr. N.

Kankakee, Hill; Chicago, Munroe; Winnebago, Bebb.

hirsuta, L.

Low grounds. Common.

var. sylvatica, Gray. C. & S.

Hancock, Mead; and southward.

ARABIS

Ludoviciana, Meyer. C. & S.

Banks of the Mississippi near Warsaw, Mead; Fulton county, Wolf; Menard, Hall; common in waste places about Salem, Marion county, Bebb; St. Clair, Brendel.

lyrata, L. N.

Sandy barrens and rocky hills. Kankakee and Cook counties and westward. Common in Henderson.

dentata, T. & G.

Rich woods along streams.

hirsuta, Scop.

Dry woods and rocky hills.

lævigata, DC.

Rocky hillsides. Infrequent.

Canadensis, L. C. & N.

Hancock and Menard counties and northward.

hesperidoides, Gray.

River banks. Will county, Monroe; Peoria, Brendel; Henderson; and southward. Scarce.

perfoliata, Lam. N.

Rocky hillsides. Winnebago county, Miss Norton; Elgin, Kane county, Vasey.

Drummondii, Gray. N.

Rocky hillsides. Lee county near Dixon, Vasey; Winnebago, Bebb.

BARBAREA

vulgaris, R. Br. N.

McHenry county, Vasey; and about gardens at Augusta, Mead.

ERYSIMUM

cheiranthoides, L. N.

Banks of streams. Hancock county, Mead, and Henderson: Kankakee, Hill; Winnebago, Bebb. Rare.

asperum, DC.,
var. Arkansanum, Nutt.

Barrens, Mason and Cass counties, Mead, Wolf. Rare.

SISYMBRIUM

officinale, Scop.

Roadsides and waste places. A common weed.

canescens, Nutt.

Throughout the State. Frequent.

Sophia, L.

Roadsides in a German settlement, Stephenson county, evidently a chance importation from "faderland"—Bebb.

BRASSICA

Sinapistrum, Boissier.

Fields and waste places. About Chicago, Kankakee, Mt. Carmel, &c. Scarce.

nigra, Gray.

Fields and waste places. Frequent.

DRABA

brachycarpa, Nutt. S.

Wabash county, Schneck.

cuneifolia, Nutt. S.

Credited to Illinois in Gray's Manual.

Caroliniana, Walt.

Dry prairies and barrens. Common.

var. micrantha, Gray.

Winnebago county, Bebb.

CAPSELLA

Bursa-pastoris, Mœnch.

A common weed.

LEPIDIUM

Virginicum, L.

Roadsides. Common.

intermedium, Gray.

Marion and Washington counties, Bebb, French; common about Chicago, Babcock; McHenry, Vasey.

CAKILE

Americana, Nutt. N-E.

Lake shore at Chicago, Munroe, Babcock.

CAPPARIDACEÆ.

POLANISIA

graveolens, Raf.

Sandy river banks, roadsides. Common north.

CLEOME

integrifolia, T. & G.

Common and spreading along roadsides and in waste places about Oquawka; sparingly escaped from cultivation at Chicago, Munroe. As it is not eaten by domestic animals, this pretty plant will probably become a common roadside weed.

speciosissima, Deppe.

Sparingly escaped from gardens southward.

VIOLACEÆ.

SOLEA

concolor, Ging. C. & S.

Woods. Tazewell county, Brendel; Menard, Hall; Marion, Bebb. Rare.

VIOLA

lanceolata, L.

Lee county, Vasey; Chicago, Babcock. Rare.

blanda, Willd.

Cook county, Babcock, and near Elgin, Vasey.

cucullata, Ait.

Low grounds. Common.

var. palmata, Gray.

With the typical form. Frequent.

delphinifolia, Nutt.

Prairies, throughout. Common.

"In cultivation the leaf seems to revert to V. CUCULLATA"—Babcock. "Apparently an extreme variation of V. PALMATA"—Bebb.

pedata, L.

Dry prairies and barrens. Flowers sometimes pure white. Common.

var. bicolor, Gray.

With the typical form in Henderson county: Hancock, Mead: Peoria, Brendel. Rare.

sagittata, Ait.

Prairies and fields. Common.

canina, L., var. sylvestris, Regel.

Rich woods. Hancock county, Mead; Peoria, Brendel; common near Chicago, Babcock.

striata, Ait. C. & S.

Rich woods. Hancock county, Mead; Marion, Bebb; Wabash, Schneck. Scarce.

pubescens, Ait.

Rich woods. Common.

var. eriocarpa, Nutt.

Winnebago and Marion counties, Bebb. Rare, or unnoticed.

var. scabriuscula, T. & G.

Kankakee county, Hill.

tricolor, L., var. arvensis, Gray.

Cultivated grounds, Hancock county, Mead: and southward. "Undoubtedly native south," Vasey.

CISTACEÆ.

HELIANTHEMUM

Canadense, Michx.

Dry prairies and barrens. Common.

HUDSONIA

tomentosa, Nutt. N.

Near Dixon, Vasey. Rare.

LECHEA

major, Michx.

Dry prairies and woods. Infrequent.

minor, Lam.

Prairies and barrens. Common.

A tall "Western form with strict habit and canescent foliage" in Winnebago county, Bebb.

L. TENUIFOLIA, Mx.—Sandstone cliffs, Ogle county, also in Marion, Bebb: common in barrens of Henderson; Adams, Mead.

L. RACEMULOSA, Mx.—Schuyler county, Mead.

DROSERACEÆ.

DROSERA

rotundifolia, L. N.

Bogs near Chicago, Babcock.

longifolia, L. N.

Near Chicago, Babcock; Kankakee county, Hill.

HYPERICACEÆ.

ASCYRUM

Crux-Andreæ, L. S.

Washington county, French; Union, Brendel.

HYPERICUM

pyramidatum, Ait. C. & N.

Banks of streams. Menard county, (a single plant,) Hall; Hancock, Mead: Peoria, Brendel; and northward. Rare.

Kalmianum, L. N-E.

Common along lake shore about Chicago, flowering from June to October. Babcock.

prolificum, L. C. & S.

Dry banks of streams in Hancock county, Mead; and southward.

adpressum, Barton. S.

St. Clair county, Brendel; Wabash, Schneck.

nudiflorum, Michx.

Low grounds, Cook and Lee counties, Vasey; and southward. Scarce.

sphærocarpon, Michx.

Dry prairies and rocky hillsides, throughout the State. Scarce.

ellipticum, Hook.

St. Clair county, Brendel; Fulton, Wolf.

perforatum, L.

Chicago, Babcock: Peoria, Brendel: Wabash county, Schneck. Rare.

corymbosum, Muhl.

Damp places. Common.
"There is a narrow-leaved variety"—Brendel.

mutilum, L.

Low grounds. Common.

var. gymnanthum, Gray.

Kankakee county, Hill; Hancock, Mead; Mason and Menard, Bebb, Hall. Scarce.

Canadense, L.

Low grounds. Menard county, Hall: and northward.

var. major, Gray.

With the typical form, Hancock county, Mead; Kankakee, Hill: and northward.

Drummondii, T. & G. S.

Marion and Washington counties, Bebb, French; Union, Forbes.

Sarothra, Michx.

Sandy grounds. Frequent.

ELODES

Virginica, Nutt.

Swamps. McHenry county, Vasey; Peoria, Brendel; and southward.

petiolata, Pursh. S.

Wabash county, Schneck.

ELATINACEÆ.

ELATINE

Americana, Arnott. C.

Floating on the surface and rooting in the margin of a stagnant pond in Sangamon county, Bebb; Menard, Hall.

BERGIA

Texana, Seubert.

"Diffusely branched from the base; stems ascending, puberulent; leaves oblong-spatulate, rather acute, serrate, tapering into a short petiole; flowers on short pedicels, mostly solitary in the axils.—Stems 6–10 in. high, glandular or hispid-pubescent; sepals denticulate, exceeding the narrowly oblong obtuse petals; stamens 5 or 10; dehiscence septifragal, as in ELATINE, the entire septum remaining attached to the axis."—KING'S REPORT, Vol. V.

Southern Texas; Nevada. Found in St. Clair county, two miles south of St. Louis, by Mr. H. Eggert.—Engelmann.

CARYOPHYLLACEÆ.

SAPONARIA

officinalis, L.

Roadsides and waste places about gardens.

VACCARIA

vulgaris, Host.

In wheat fields, along railroads, &c. Scarce.

SILENE

stellata, Ait.

Woods. Common.

nivea, DC.

Sangamon county, Bebb; Peoria, Brendel; along creeks in Hancock and Schuyler, Mead; Ogle, Bebb. Also along railroad in Henderson county, and near Chicago, Babcock. Rare.

inflata, Smith.

Occasionally found in wheat fields.

regia, Sims. S.

St. Clair county, Brendel. Rare.

Virginica, L.

Abundant on wooded banks of Desplaines River near Chicago, Babcock. Rare.

antirrhina, L.

Dry prairies and sandy barrens. Common.

LYCHNIS

Githago, Lam.

Wheat fields. Frequent.

ARENARIA

stricta, Michx. N.

Kankakee county, Hill; Winnebago, Bebb: McHenry, Vasey; Cook, Babcock.

lateriflora, L. C. & N.

Damp woods. Hancock county, Mead; and northward. Infrequent.

STELLARIA

media, Smith.

Damp places. Frequent.

longifolia, Muhl.

Wet meadows. Frequent.

crassifolia, Ehrh. N.

Ringwood, McHenry county, Vasey.

CERASTIUM

vulgatum, L.

Frequent.

viscosum, L.

Frequent.

nutans, Raf.

Damp places. Common.

oblongifolium, Torr.

Wabash county, Schneck; Lee, Vasey; Kankakee, Hill; Winnebago, Bebb. Scarce

SAGINA

subulata, Wimmer? S.

Common in Jackson and Union counties, Vasey. Forbes. "Apetalous late in the season," Vasey.

ANYCHIA

dichotoma, Michx.

Dry woods, &c. Common.

MOLLUGO

verticillata, L.

Roadsides, sandy river banks. Common.

PORTULACACEÆ.

PORTULACA

oleracea, L.

A common weed in gardens and fields.

TALINUM

teretifolium, Pursh.

Sandy prairies and barrens. Henderson county: Ogle, Bebb; near Dixon, Vasey. Rare, or overlooked. Easily found when the flowers are expanded, about four o'clock in the afternoon.

CLAYTONIA

Virginica, L.

Rich woods. Common.

Caroliniana, Michx.

With the last in Hancock county, Mead; near Chicago, Vasey. Rare.

MALVACEÆ.

MALVA

rotundifolia, L.

Roadsides and waste places. Common.

sylvestris, L.

Sparingly escaped from gardens.

CALLIRRHOE

triangulata, Gray.

Sandy barrens. Cass county, Mead; and northward. Scarce.

NAPÆA

dioica, L. C. & N.

Open bushy places near Pecatonica, Winnebago county, and along Railroad near Freeport, Bebb: McHenry county, Vasey; Will, Munroe: Peoria, Brendel: along Spoon River, Fulton county, Mead, Wolf. Rare.

MALVASTRUM

angustum, Gray. W.

On Rock Island, 1866—the locality now covered with buildings—Engelmann.

SPHÆRALCEA

acerifolia, Nutt. N.

"Scabrous with a stellate pubescence; leaves cordate, deeply 5–7-lobed; lobes acute, coarsely serrate; racemes leafy below, naked above, the flowers clustered on short peduncles; carpels 12–14, pointless. Stem 3–6 feet high, much branched: leaves 2–6 in. in diameter; petals ¾–1½ in. in length, light purple or nearly white." —KING'S REPORT, Vol. V.

A pretty plant, formerly found only near the Pacific coast. Discovered by Rev. E. J. Hill on an island in the Kankakee River near Altorf, Kankakee county.

SIDA

spinosa, L. C. & S.

Roadsides and waste places. Common in Henderson county; Peoria, Brendel: and southward.

ABUTILON

Avicennæ, Gærtn.

Fields and waste places. Becoming too common in many places.

HIBISCUS

Moscheutos, L. S.

River banks. St. Clair county, Brendel; Wabash, Schneck.

grandiflorus, Michx. S.

River banks. Marion county, Bebb; Washington, French; Wabash, Schneck; and southward.

militaris, Cav. C. & S.

River banks. Henderson county; Peoria, Munroe, Brendel; Kankakee, Hill; and southward. Frequent.

Trionum, L.

Escaped from gardens to roadsides and waste places. Frequent.

TILIACEÆ.

TILIA

Americana, L.

River banks. Common.

var. pubescens, Gray.

Fulton county, Wolf.

heterophylla, Vent.

Fulton county, Wolf; Wabash, Schneck.

LINACEÆ.

LINUM

Virginianum, L.

Dry soils. McHenry, Vasey; near Chicago, Munroe; and frequent southward.

striatum, Walt.

Richview, Washington county, Vasey.

sulcatum, Riddell.

Prairies. Frequent.

GERANIACEÆ.

GERANIUM

maculatum, L.

In woods. Common.

Carolinianum, L.

Throughout the State. Frequent.

FLŒRKEA

proserpinacoides, Willd.

Banks of streams, &c. Peoria county, Brendel, Wolf; near Chicago, Munroe, Babcock. Rare.

IMPATIENS

pallida, Nutt.

Rich woods along streams. Common.

fulva, Nutt.

With the last. Common.

OXALIS

violacea, L.

Dry prairies and hillsides. Common.

stricta, L.

Open woods, roadsides and waste places. Common.

RUTACEÆ.

ZANTHOXYLUM

Americanum, Mill.

Rocky hillsides and banks of streams. Frequent.

PTELEA

trifoliata, L.

Banks of streams. Common.

ANACARDIACEÆ.

RHUS

typhina, L.

Chicago, Vasey: Wabash county, Schneck; in herb. Miss Holmes from Bureau county. Rare.

glabra, L.

Hillsides. Common.

copallina, L.

Rocky hillsides. Ogle county, Bebb; McHenry, Vasey; Chicago, Babcock: also from Adams county, Mead, southward.

venenata, DC. N.

Swamps. McHenry county, Vasey: near Chicago, Babcock.

Toxicodendron, L.

Rich woods along streams, &c. Common.

aromatica, Ait.

Sandy river banks. Infrequent.

VITACEÆ.

VITIS

æstivalis, Michx.

Woods along streams. Common.

var. ? cinerea, Engelm.

River banks. Common at Canton landing on the Illinois River, Fulton county, Wolf; Menard, Hall; and southward.

cordifolia, Michx.

Woods. Common.

riparia, Michx.

With the last.

indivisa, Willd. C. & S.

River banks. Schuyler county, Mead: St. Clair, Brendel; Jackson and Union, Vasey, French, Forbes.

bipinnata, T. & G. S.

Near Chester, Randolph county, Mead; Grand Tower, Jackson county, French, Forbes: Union, Wolf, and Pulaski, Brendel.

AMPELOPSIS

quinquefolia, Michx.

Woods. Common.

RHAMNACEÆ.

RHAMNUS

lanceolatus, Pursh. C.

River banks. From Henderson, Hancock and Menard counties eastward. Infrequent.

alnifolius, L'Her. N.

Swamps. Peoria county, Brendel: McHenry, Vasey. Rare.

FRANGULA

Caroliniana, Gray. S.

River banks. Grand Tower, Jackson county, Vasey, Brendel, &c.; Union, Wolf.

CEANOTHUS

Americanus, L.

Dry prairies and barrens. Common.

ovalis, Bigel. N.

Winnebago county, near Beloit, Wis., Bebb.

CELASTRACEÆ.

CELASTRUS

scandens, L.

Woods along streams. Common.

EUONYMUS

atropurpureus, Jacq.

Rich woods. Common.

Americanus, L.

Near Chicago, Babcock; Wabash Co., Schneck. Rare.

var. obovatus, T. & G.

River-side, Cook county, Babcock, Munroe; Jackson county, Vasey. Rare.

SAPINDACEÆ.

STAPHYLEA

trifolia, L.

Woods along streams. Frequent.

ÆSCULUS

glabra, Willd. C. & S.

River banks. Henderson county; Peoria, Brendel; and southward. Common.

A tree with smooth fruit near Oquawka.

ACER

saccharinum, Wang.

River banks. Common.

var. nigrum, Gray. C. & S.

Hancock county, Mead; and southward.

dasycarpum, Ehrh.

River banks. Common.

rubrum, L.

River banks. Marion county, Bebb; and common southward.

NEGUNDO

aceroides, Mœnch.

River banks. Common.

POLYGALACEÆ.

POLYGALA

incarnata, L.

Prairies. Scarce.

sanguinea, L.

Wet meadows. Common.

cruciata, L. N.

Borders of swamps. Lee county, Vasey: Kankakee, Hill; and northward. Frequent.

verticillata, L.

Dry prairies and barrens. Common.

ambigua, Nutt.

Chicago, Vasey; Hancock county, Mead: Marion, Bebb; Washington, French.

Senega, L.

Prairies and open woods. Common.

var. latifolia, T. & G.

With the typical form in Henderson county; Marion county, Bebb.

polygama, Walt. C. & N.

Cass county, Mead; Kankakee, Hill; Chicago, Babcock. Scarce.

paucifolia, Willd. N.

Thornton, Cook county, Hill. Rare.

LEGUMINOSÆ.

LUPINUS

perennis, L.

Kankakee county, Hill; Ogle, Bebb; McHenry, Miss Holmes; common about Chicago, Babcock. I do not hear of it southward.

CROTALARIA

sagittalis, L. C. & S.

Peoria county, Brendel; Cass, Mead; and common southward.

TRIFOLIUM

arvense, L.

Roadsides, &c. Scarce.

pratense, L.

Common in fields, &c.

reflexum, L.

Near Chicago, Babcock; Peoria county, Brendel; Fulton, Wolf; Marion, Bebb; Jackson and Union, Forbes. Scarce.

stoloniferum, Muhl.

Hancock county, Mead; Washington, French.

repens, L.

Everywhere.

MELILOTUS

officinalis, Willd.

Waste places. Scarce.

alba, Lam.

Waste places about gardens. Frequent.

PSORALEA

Onobrychis, Nutt.

River banks. Kankakee (abundant) Hill; Hancock, Mead; Peoria, Brendel; and southward. Scarce.

melilotoides, Michx. S.

Marion, Bebb; St. Clair, Brendel; and southward.

floribunda, Nutt.

Cook county, Babcock, and Will, Hill; Peoria, Brendel; Hancock, Mead; Menard, Hall. Rare.

DALEA

alopecuroides, Willd. S.

St. Clair county, Brendel; Union, Vasey.

PETALOSTEMON

violaceus, Michx.

Prairies. Common.

candidus, Michx.

Prairies. Common.

foliosus, Gray.

Banks of Fox River, Kane county, Burgess Truesdell, in Gray's Manual; on the gravelly banks of an island in the Kankakee River, near Altorf, Kankakee county, Rev. Hill found a few plants in 1873. Very rare.

AMORPHA

fruticosa, L.

Banks of streams. Frequent.

canescens, Nutt.

Prairies and barrens. Common.

ROBINIA

Pseudacacia, L. S.

Commonly cultivated and spontaneous. "Undoubtedly indigenous on the banks of the Ohio," Vasey, Forbes.

WISTARIA

frutescens, DC. S.

Washington county, French; Wabash, Schneck.

TEPHROSIA

Virginiana, Pers.

Prairies and barrens. Common.

ASTRAGALUS

Mexicanus, A. DC. S.

Near Alton, Miss Holmes; St. Clair county, Brendel.

Plattensis, Nutt.,
var. Tennesseensis, Gray.

Sandy banks of Rock River, Ogle county, 1858, but not since found, Bebb; Will county, Vasey.

Canadensis, L.

Banks of streams. Common.

distortus, T. & G.

Mason county, Mead, Bebb; Menard, Hall.

DESMODIUM

nudiflorum, DC.

Woods. Common.

acuminatum, DC.

Woods. Common.

pauciflorum, DC.

Woods. Near Chicago, Munroe; Peoria, Brendel; and southward. Scarce.

rotundifolium, DC. S.

Jackson county, French, Vasey; Union, Forbes.

canescens, DC.

Damp places. Frequent.

cuspidatum, T. & G.

Woods. Frequent.

A hairy form of this species found in Marion county, Bebb; Fulton, Wolf.

lævigatum, DC. S.

Jackson county, and southward, Vasey.

viridiflorum, Beck. S.

Washington county, French; Wabash, Schneck; and southward.

Dillenii, Darlington.

Peoria county, Brendel; Kankakee, Hill; and southward.

paniculatum, DC.

Peoria county, Brendel; and southward.

Canadense, DC.

Open woods and prairies. Common.

Illinoense, Gray.

"Resembling D. CANESCENS in leaves and flowers, but D. RIGIDUM in raceme and fruit. Stem 3–5 feet high, with the leaves roughish with fine pubescence, leaflets ovate-oblong or ovate-lanceolate, 2–4 inches long, subcoriaceous, whitish beneath, much reticulated with rather prominent veins and veinlets, lateral nearly equalling the petiole; persistent stipules and deciduous bracts ovate-lanceolate, taper pointed, striate; pod slightly stalked, scarcely more than an inch in length, sinuate at the sutures on both sides, more deeply below, joints 3–5, oval, not exceeding 3 lines in length."

Dry prairies and hillsides, from Marion county (Bebb) northward. Frequent.

sessilifolium, T. & G.

Dry hillsides, &c. Frequent.

rigidum, DC. S.

Dry hillsides, &c., southward, Vasey, Schneck.

ciliare, DC. C. & S.

Menard county, Hall; and southward.

Marilandicum, Boott. C. & S.

Menard county, Hall; and southward.

LESPEDEZA

procumbens, Michx. S.

Cobden, Union county, and southward, Vasey.

repens, T. & G. S.

Washington county and southward, Vasey.

violacea, Pers.

Dry woods. Common.

The vars. DIVERGENS, SESSILIFLORA and ANGUSTIFOLIA all occur in the State.

hirta, Ell.

Washington county, Vasey; and southward.

capitata, Michx.

Dry prairies and barrens. Common.

var. angustifolia, Gray.

Winnebago county, Bebb; McHenry, Vasey; Hancock, Mead.

STYLOSANTHES

elatior, Swartz. S.

Jackson and Union counties.

VICIA

Caroliniana, Walt. N.

Common in northern counties.

Americana, Muhl. C. & N.

Peoria county, Brendel; and common north.

LATHYRUS

maritimus, Bigel. N-E.

Sands of lake shore about Chicago, Babcock.

venosus, Muhl. N.

Kankakee county, Hill; and northward.

ochroleucus, Hook. N.

About Chicago, Munroe, Babcock; McHenry. Vasey.

palustris, L.

Low grounds. Frequent.

var. myrtifolius, Gray. N.

Kankakee county, Hill; near Chicago, Babcock.

APIOS

tuberosa, Mœnch.

Woods along streams. Frequent.

Very rarely found in fruit in Illinois.

PHASEOLUS

perennis, Walt. S.

Madison Co., Miss Holmes; Wabash, Schneck; Union and Franklin, Forbes.

diversifolius, Pers.

Sandy river banks. Common.

helvolus, L. C. & S.

Peoria county, Brendel; and southward.

pauciflorus, Benth.

Banks of Rock River in Ogle county, Bebb; and southward.

CLITORIA

Mariana, L. S.

Frequent in thickets in Jackson county. Forbes.

AMPHICARPÆA

monoica, Nutt.

Rich woods. Common.

GALACTIA

mollis, Michx. S.

Jackson county and southward, Forbes.

BAPTISIA

tinctoria, R. Br.

Northern counties, Miss Holmes.

leucantha, T. & G.

Low prairies. Common.

leucophæa, Nutt.

Sandy prairies and barrens. Common.

CERCIS

Canadensis, L. C. & S.

River banks. Henderson, Peoria and Kankakee counties, and southward. Common.

CASSIA

Marilandica, L.

River banks. Frequent.

obtusifolia, L. S.

Banks of the Ohio, Vasey, Brendel.

Chamæcrista, L.

Sandy river banks, &c. Common.

nictitans, L. C. & S.

Sandy barrens. Henderson county; and southward.

GYMNOCLADUS

Canadensis, Lam.

Near Chicago, Babcock; Peoria county, Brendel; Henderson; and southward. Frequent.

GLEDITSCHIA

triacanthos, L. C. & S.

River banks, from Kankakee, Peoria and Henderson counties southward. Common.

monosperma, Walt. S.

Jackson county, Forbes; Union, near Jonesboro, Vasey; Pulaski, Brendel. Rare.

DESMANTHUS

brachylobus, Benth. C. & S.

Kankakee county, Hill; Peoria, Brendel, Munroe; and southward.

ROSACEÆ.

PRUNUS

Americana, Marshall.

Low grounds. Common.

Chicasa, Michx. S.

West of Jonesboro, Union county, Vasey.

pumila, L. N.

Sandstone cliffs, Ogle county, Bebb; Kankakee, Hill; and northward.

Pennsylvanica, L. N.

Winnebago county, Bebb; McHenry, Vasey; Lake shore near Chicago, H. A. Warne.

Virginiana, L.

Banks of streams. Common.

serotina, Ehrh.

Rich woods. Common.

SPIRÆA

opulifolia, L.

Rocky banks of streams. Frequent.

salicifolia, Raf.

Low grounds. Frequent.

tomentosa, L.

Kankakee county, Hill; near Chicago, Babcock.

lobata, Murr. C.

Peoria county, Brendel; Fulton, Wolf; Tazewell, Munroe; Mason, Hall; Cass, Mead. I do not hear of it north or south.

Aruncus, L. C. & S.

Woods. Peoria, Brendel; and southward.

GILLENIA

stipulacea, Nutt. C. & S.

Schuyler county, Mead; Sangamon, Bebb; and southward.

POTERIUM

Canadense, Gray.

Near Beardstown, Cass county, Mead.

AGRIMONIA

Eupatoria, L.

Open woods. Common.

parviflora, Ait.

With the last. Frequent.

GEUM

album, Gmelin.

Woods. Common.

Virginianum, L.
Woods. Infrequent.

macrophyllum, Willd. N.
McHenry county, Vasey.

strictum, Ait. C. & N.
Wet meadows. Fulton county, Wolf; Kankakee, Hill; and northward.

vernum, T. & G. C. & S.
Hancock county, Mead; and southward. Rare.

rivale, L. N.
Near Elgin, Kane county, Vasey; McHenry, Miss Holmes. Rare.

triflorum, Pursh. N.
McHenry county, Vasey; Winnebago, Bebb.
"One of the few rare plants of our northern prairies which seems thus far to hold its place—growing as it does on sterile knolls too stony to plow and too poor to give blue grass a chance for encroachment; either cattle leave it alone or else the leaves lie so flat on the ground as to escape pasturage."—Bebb.

POTENTILLA
Norvegica, L.
Low grounds. Common.

paradoxa, Nutt. S-W.
St. Clair county, Brendel.

Canadensis, L.
Dry hillsides, &c. Common.

arguta, Pursh. C. & N.
Prairies. Menard county, Hall; and northward.

Anserina, L. N.
Common in damp sandy soil along lake shore about Chicago.

fruticosa, L. N.
Low grounds about Chicago, Babcock, and Kane county, Miss Holmes.

palustris, Scop. N.
McHenry county, Vasey.

FRAGARIA
Virginiana, Ehrh.
Hillsides and barrens. Common.

var. Illinoensis, Gray.
With the typical form; scarce, or not distinguished from it by most persons.

vesca, L.
Shady hillsides, &c. Apparently scarce.

RUBUS
triflorus, Richard. N.
Kane county, Miss Holmes; Cook county, near Evanston, Vasey, Calumet, Babcock.

strigosus, Michx.
Ogle county, Bebb; McHenry, Vasey; Chicago, Babcock; also in Washington county, French.

occidentalis, L.
Open woods. Common.

villosus, Ait.
With the last. Common.

Canadensis, L.
Near Chicago, Babcock. Menard county, Hall: and southward. Probably rare northward.

hispidus, L. N.
Kankakee county, Hill: Chicago, Babcock.

ROSA
setigera, Michx. C. & S.
Peoria county, Brendel; and southward.

Carolina, L.
Low grounds, throughout. Frequent.

lucida, Ehrh.
Hillsides, &c. Common.

blanda, Ait.
With the last. Common.

CRATÆGUS
cordata, Ait.
Wabash county, Schneck.

coccinea, L.
Woods. Common.

tomentosa, L:
var. pyrifolia, Gray.
Kankakee county, Hill.

var. punctata, Gray.
Frequent.

var. mollis, Gray.
Frequent.

Crus-galli, L.
Woods. Common.

PYRUS
coronaria, L.
Banks of streams. Common.

angustifolia, Ait. S.
Washington county, French; Wabash, Schneck.

arbutifolia, L. N.
Kankakee county, Hill; Ogle, Bebb.

AMELANCHIER

Canadensis, T. & G. :

var. Botryapium, Gray.

Rocky banks of streams. Frequent.

var. oblongifolia, Gray.

Cliffs near Oregon, Ogle county, Bebb ; Makanda, Jackson county, French.

var. rotundifolia, Gray.

Near Chicago, Babcock ; Fountain Bluff, Jackson county, French.

var. alnifolia, Gray.

Ogle county, Bebb.

SAXIFRAGACEÆ.

RIBES

Cynosbati, L. C. & N.

Rocky banks of streams. Henderson county ; Kankakee, Hill ; and northward.

hirtellum, Michx. N.

Evanston, Cook county, Vasey.

rotundifolium, Michx. C. & N.

Open woods. Henderson, Peoria and Kankakee counties ; and northward.

floridum, L.

Rich woods along streams. Frequent.
I do not hear of it south of Menard county.

HYDRANGEA

arborescens, L. C. & S.

Peoria county, Brendel, Munroe ; and southward.

PARNASSIA

Caroliniana, Michx.

Marion county, Bebb ; and northward. Frequent.

SAXIFRAGA

Pennsylvanica, L. C. & N.

Bogs. Peoria county, Brendel ; and northward. Common.

Forbesii, Vasey. S.

Damp hillside 1 mile north of Makanda, Jackson county, east side of railroad—May, June—Forbes ; Cobden, Union county, Vasey.

HEUCHERA

Rugellii, Shuttlew. S.

Common on Union county bluffs, July and Aug , Forbes ; Jackson county, French.

Americana, L.

Marion county, Bebb ; and southward.

hispida, Pursh.

Hillsides. Marion county, Bebb ; and northward. Frequent.

MITELLA

diphylla, L.

Damp hillsides. Scarce.

CRASSULACEÆ.

PENTHORUM

sedoides, L.

Wet places. Common.

SEDUM

pulchellum, Michx. S.

Jackson and Union counties, Vasey, French.

ternatum, Michx.

Rocky woods. Kankakee county, Hill ; Wabash, Schneck. Rare.

HAMAMELACEÆ.

HAMAMELIS

Virginica, L.

Damp woods. White county, Schneck ; Peoria, Brendel ; and frequent northward.

LIQUIDAMBAR

Styraciflua, L. S.

Wabash and Jackson counties, and southward.

HALORAGEÆ.

MYRIOPHYLLUM

spicatum, L.

McHenry county, in Fox river, Vasey.

verticillatum, L. C. & N.

Menard county, Hall ; McHenry, Vasey.

heterophyllum, Michx.

McHenry county, Vasey ; Hancock, Mead. Rare.

scabratum, Michx. C. & S.

Henderson county, frequent ; Menard, Hall ; Franklin, Forbes. Rare.

ambiguum, Nutt.,
var. capillaceum, Gray. S.

Wabash county, Schneck.

PROSERPINACA

palustris, L.

Swamps. Scarce.

HIPPURIS

vulgaris, L.

Wabash county, Schneck ; McHenry, Vasey. Very rare.

ONAGRACEÆ.

CIRCÆA

Lutetiana, L.

Rich woods. Common.

GAURA

biennis, L.

Dry places. Common.

EPILOBIUM

angustifolium, L. N.

Low places. Winnebago and McHenry counties.

palustre, L., var. lineare, Gray. C. & N.

Low grounds. Menard county, Hall ; and northward. Frequent.

molle, Torr. C. & N.

With the last.

coloratum, Muhl.

Low grounds. Common.

ŒNOTHERA

biennis, L.

Dry copses, fields, &c. Common.

Varieties MURICATA, GRANDIFLORA, PARVIFLORA and CRUCIATA are found in the State.

rhombipetala, Nutt.

Sandy prairies and barrens. Menard county, Hall ; frequent in Henderson ; near Chicago, Babcock, Vasey ; Ogle county, Bebb. Scarce.

fruticosa, L.

Low prairies, &c. Frequent.

linearis, Michx. S.

Carbondale, Jackson county, Forbes.

Missouriensis, Sims. S.

Near Nashville, Washington county, Vasey.

JUSSIÆA

repens, L. S.

Jonesboro, Union county, Miss Holmes ; Mound City, Vasey.

decurrens, DC. S.

Perry and Union counties, Forbes.

LUDWIGIA

alternifolia, L.

Low grounds. Frequent.

sphærocarpa, Ell.

Chicago, Dr. Scammon, in herb. M. S. Bebb ; Menard county, Hall ; Union, Forbes ; Mound City, Miss Holmes. Rare.

polycarpa, Short & Peter.

Wet places. Common.

cylindrica, Ell. S.

Mound City, Vasey.

palustris, Ell.

Ponds and ditches. Common.

MELASTOMACEÆ.

RHEXIA

Virginica, L.

Lee county, Vasey ; Kankakee, Hill ; Mason, Bebb ; Cass, Mead ; and probably southward. Rare.

LYTHRACEÆ.

AMMANNIA

humilis, Michx.

Margins of ponds, &c. Scarce.

latifolia, L. C. & S.

Wet places. Henderson county ; Peoria, Munroe, Brendel ; Kankakee, Hill ; and southward. Frequent.

Nuttallii, Gray.

In ponds, and rooting in their margins as the water evaporates. Henderson county ; Hancock, Mead ; Menard, Hall. Rare.

LYTHRUM

alatum, Pursh.

Wet places. Common.

NESÆA

verticillata, H. B. K.

Low grounds. Near Chicago, Vasey ; Wabash county, Schneck ; Franklin, Forbes. Rare.

CUPHEA

viscosissima, Jacq. C. & S.

Dry places. Hancock county, Mead ; Peoria, Brendel ; and southward.

LOASACEÆ.

MENTZELIA

oligosperma, Nutt. W.

Prairies. Pike county, Mead.

CACTACEÆ.

OPUNTIA

Rafinesquii, Engelm.

Sandy prairies and barrens. Frequent.

PASSIFLORACEÆ.

PASSIFLORA

lutea, L. S.

Damp woods. Madison and St. Clair counties, Miss Holmes, Brendel; Marion, Bebb; Wabash, Schneck; and southward. Frequent.

CUCURBITACEÆ.

SICYOS

angulatus, L.

River banks. Common.

ECHINOCYSTIS

lobata, T. & G.

Banks of streams. Common.

UMBELLIFERÆ.

SANICULA

Canadensis, L.

Open woods. Common.

Marilandica, L.

With the last. Common.

ERYNGIUM

yuccæfolium, Michx.

Prairies. Common.

DAUCUS

Carota, L.

Sparingly escaped from gardens to roadsides and waste places.

POLYTÆNIA

Nuttallii, DC.

Prairies and barrens. Scarce.

HERACLEUM

lanatum, Michx.

Damp places. Common.

PASTINACA

sativa, L.

Roadsides and waste places. Common.

ARCHEMORA

rigida, DC.

Also the var. AMBIGUA, Gray.
Wet prairies, ravines, &c. Roots tuberiferous. Scarce.

ARCHANGELICA

hirsuta, T. & G. S.

Washington Co., and southward, Vasey, Forbes. Rare.

atropurpurea, Hoffm. C. & N.

Low grounds, Fulton, Wolf; Kankakee, Hill; and northward.

CONIOSELINUM

Canadense, T. & G. N.

Elgin, Kane county, Vasey.

THASPIUM

barbinode, Nutt.

Rich woods. Scarce.

aureum, Nutt.

River banks, &c. Common.

var. apterum, Gray.

Winnebago and Marion counties, Bebb.

trifoliatum, Gray.

Open woods, &c. Scarce.

var. atropurpureum, T. & G.

Menard county, Hall; and southward.

var. apterum, Gray.

Winnebago and Marion counties, Bebb.

ZIZIA

integerrima, DC.

Dry hillsides. Frequent.

DISCOPLEURA

capillacea, DC. S.

Mound City, Vasey.

var? costata, DC. S.

St. Clair county, Brendel; Mound City, Vasey.

Nuttallii, DC. S.

Jackson and Union counties, Forbes, Wolf.

CICUTA

maculata, L.

Low grounds. Common.

bulbifera, L. N.

Peoria county, Brendel; Stephenson and Winnebago, Miss Holmes; McHenry, Vasey.

SIUM

angustifolium, L. C. & N.

Fulton county, Wolf: Peoria, (frequent), Brendel: Winnebago, (rare), Bebb: McHenry, Vasey.
"I have found this in northern Illinois invariably associated with MIMULUS JAMESII."—Bebb.

lineare, Michx.
Low grounds. Common.

CRYPTOTÆNIA
Canadensis, DC.
Woods. Common.

CHÆROPHYLLUM
procumbens, Lam.
Damp woods. Common.

OSMORRHIZA
longistylis, DC.
Rich woods. Frequent.

brevistylis, DC.
Rich woods. Frequent.

CONIUM
maculatum, L.
Waste places. Elgin, Kane county, Vasey, and Chicago, Babcock; Wabash, Schneck.

EULOPHUS
Americanus, Nutt.
Moist thickets, throughout. Scarce.

ERIGENIA
bulbosa, Nutt. C. & S.
Hancock county, Mead; and southward.

ARALIACEÆ.

ARALIA
spinosa, L. S.
Jackson and Union counties, and southward.

racemosa, L.
Rich woods. Common.

nudicaulis, L.
Rich woods. Frequent.

quinquefolia, Gray.
Rich woods. Infrequent.

CORNACEÆ.

CORNUS
Canadensis, L. N.
Near Chicago, Munroe; Winnebago county, Miss Holmes. Rare.

florida, L. C. & S.
Woods. Schuyler county, Mead; and southward. Frequent.

sericea, L.
Wet places. Common.

circinata, L'Her.
Near Elgin, Kane county, Vasey; once found near Peoria, Brendel. Rare.

stolonifera, Michx. C. & N.
Low grounds. Menard county, Hall; and northward. Common.

asperifolia, Michx. C. & S.
Peoria and Henderson counties, and southward. In Henderson county it grows mostly in river bottoms—rarely in dry places. Common.

paniculata, L'Her.
Woods along streams. Common.

alternifolia, L.
Open woods, especially along streams. Apparently rare southward.

NYSSA
multiflora, Wang. S.
Washington county, French; Wabash, Schneck; and southward.

CAPRIFOLIACEÆ.

LINNÆA
borealis, Gronov. N.
North of Chicago, Vasey.

SYMPHORICARPUS
occidentalis, R. Br.
Wabash county, Schneck; Washington, French; McHenry, Vasey. Rare.

LONICERA
flava, Sims. C. & N.
Rocky banks of streams. Menard county, Hall; and northward. Frequent.

parviflora, Lam. C. & N.
With the last. Hancock county, Mead; Peoria, Brendel; and probably northward.

var. Douglasii, Gray. N.
Deer Park, La Salle county, Forbes; and northward. Frequent.

DIERVILLA
trifida, Mœnch. N.
Cook county—near Chicago, Babcock, and Evanston, Vasey. Rare.

TRIOSTEUM
perfoliatum, L.
Rich woods. Frequent.

angustifolium, L. S.
St. Clair county, Brendel; Union, French.

SAMBUCUS

Canadensis, L.

River banks, borders of woods, &c. Frequent.

VIBURNUM

Lentago, L.

Banks of streams, &c. Frequent.

prunifolium, L.

Dry copses. Scarce northward.

dentatum, L.

River banks. Scarce.

pubescens, Pursh. N.

Winnebago county, Bebb; McHenry, Vasey.

acerifolium, L. N.

Near Chicago, Babcock; Winnebago Co., Bebb; McHenry, Vasey.

Opulus, L. N.

Near Chicago, Munroe, Babcock.

RUBIACEÆ.

GALIUM

Aparine, L.

Moist thickets. Common, especially northward.

asprellum, Michx.

Moist thickets. Washington county, French; Wabash, Schneck; McHenry, Vasey. Scarce.

concinnum, T. & G.

Dry prairies and hillsides, also in rich woods. Common.

trifidum, L.

Wet places. Common.

triflorum, Michx.

Rich woods. Common.

pilosum, Ait. C. & S.

Dry copses. Cass county, Mead: and southward.

circæzans, Michx.

Rich woods. Common.

lanceolatum, Torr.

Wabash county, Schneck.

boreale, L. N.

Near Chicago, Babcock; Winnebago county, Bebb; McHenry, Vasey.

SPERMACOCE

glabra, Michx. C. & S.

River banks. Peoria county, Brendel; Fulton, Wolf; and southward.

DIODIA

Virginica, L. S.

River banks. Marion county, Vasey; and southward.

teres, Walt. C. & S.

Dry, sandy places. Hancock county, Mead; and southward.

CEPHALANTHUS

occidentalis, L.

Wet places. Common.

MITCHELLA

repens, L.

Damp hillsides at Makanda, Jackson county, Forbes.

HOUSTONIA

purpurea, L. C. & S.

Woods. Menard county, Hall; and southward.

var. ciliolata, Gray.

Marion county, Brendel.

angustifolia, Michx. S.

Jackson and Union counties, Vasey, Forbes.

minima, Beck. W.

Dry hillsides, western Illinois, Gray's Manual.

cærulea, L.

Near Chicago, Babcock; St. Clair county, Brendel; Washington and southward, Vasey.

VALERIANACEÆ.

VALERIANA

pauciflora, Michx. S.

Woods. Wabash county, Schneck; Jackson, Vasey; and southward.

edulis, Nutt. N.

Abundant in one locality south-west of Hyde Park, Cook county, Babcock: Winnebago, Bebb; McHenry, Vasey.

FEDIA

radiata, Michx.

Low grounds. Frequent.

umbilicata, Sulliv.

Banks of Kankakee river, Kankakee county, Hill.

DIPSACEÆ.

DIPSACUS

sylvestris, Mill.

Waste places. Wabash county, Schneck; Frequent in McHenry, Vasey.

COMPOSITÆ.

VERNONIA

Noveboracensis, Willd.

River banks. Hancock county, Mead.

fasciculata, Michx.

River banks. Common.

ELEPHANTOPUS

Carolinianus, Willd. S.

St. Clair county, Brendel; Marion, Bebb; and southward. Frequent.

LIATRIS

squarrosa, Willd.

Cook county, Munroe, Hill; and southward. Frequent.

cylindracea, Michx.

Prairies. Common.

scariosa, Willd.

Prairies and barrens. Common.

spicata, Willd.

Moist prairies. McHenry county, Vasey; Cook, Babcock, Hill. Rare.

pycnostachya, Michx.

Prairies. Common.

KUHNIA

eupatorioides, L.

Prairies and barrens. Common.

EUPATORIUM

purpureum, L.

Low grounds. Common.

altissimum, L.

Dry hillsides, &c. Common.

sessilifolium, L. C. & S.

Peoria county, Brendel; Hancock, Mead; and southward.

perfoliatum, L.

Wet places. Common.

serotinum, Michx.

River banks, throughout. Common.

ageratoides, L.

Rich woods. Common.

aromaticum, L. S.

Jackson county, French.

MIKANIA

scandens, L. S.

Wabash county, Schneck.

CONOCLINIUM

cœlestinum, DC. C. & S.

Mason county, Mead; Menard, Hall; and southward. Frequent.

ASTER

corymbosus, Ait.

Woods. Menard county, Hall; Hancock, Mead; Peoria, Brendel. Scarce.

macrophyllus, L. N.

Near Chicago, Babcock, Munroe.

sericeus, Vent.

Prairies and barrens. Common.

patens, Ait. S.

Union and Wabash counties; and southward.

lævis, L. var. lævigatus, Gray.

Dry open woods. Common northward.

var. cyaneus, Gray.

With the last.

turbinellus, Lindl. C. & S.

Prairies and barrens. Hancock county, Mead; Menard, Hall; St. Clair, Brendel; Union, French. Rare.

azureus, Lindl.

Prairies and copses. Frequent.

Shortii, Boott.

Rich woods. Winnebago county, Bebb; Hancock, Mead; Peoria, Brendel; and southward, Vasey. Scarce.

undulatus, L.

Dry copses. Common.

Drummondii, Lindl.

Wooded hillsides, &c., throughout. Frequent. Runs into A. UNDULATUS.

cordifolius, L.

Woods. Frequent.

sagittifolius, Willd.

Dry hillsides, &c. Common.

ericoides, L.

Dry open places. Frequent.

var. villosus, Ait.

With the typical form. Frequent.

multiflorus, Ait.

Dry prairies and barrens. Common.

dumosus, L.

Thickets. Frequent.

Tradescanti, L.
Damp places. Frequent.

miser, L.
Woods and open damp places. Common.

simplex, Willd.
Woods, and open places in low grounds. Common.

tenuifolius, L.
Low grounds. Frequent.

carneus, Nees.
Damp places. Frequent.

æstivus, Ait.
McHenry county, Vasey: Peoria, Brendel.

longifolius, Lam.
Moist places. Near Chicago, Babcock; Kankakee county, Hill; Peoria, Brendel.

puniceus, L.
Low thickets, &c. Scarce.

var. vimineus, Gray.
Winnebago county, Bebb: also in Henderson.

prenanthoides, Muhl.
Fulton county, Brendel, Wolf.

oblongifolius, Nutt.
River banks. Frequent.

amethystinus, Nutt.
Peoria county, Brendel; Fulton, Wolf; Menard, Hall. Rare.

Novæ-Angliæ, L.
Moist ravines, &c. Common.

anomalus, Engelm. W.
Rocky hillsides. Peoria county, Brendel; Fulton, Wolf: Hancock, Mead; St. Clair, Engelmann. Scarce.

acuminatus, Michx. N.
McHenry county, Vasey.

ptarmicoides, T. & G. C. & N.
Prairies. Menard county, Hall; and northward.

ERIGERON

Canadense, L.
Waste places. Common.

divaricatum, Michx.
Dry roadsides, prairies, &c., throughout the State. Common.

bellidifolium, Muhl.
Moist hillsides. Common.

Philadelphicum, L.
Moist places. Common.

annuum, Pers.
Low grounds. Common.

strigosum, Muhl.
Prairies and fields. Common.

DIPLOPAPPUS

linariifolius, Hook.
Dry prairies and barrens. Common.

umbellatus, T. & G. C. & N.
Moist thickets. Menard county, Hall; and northward.

BOLTONIA

glastifolia, L'Her.
Low grounds. Common.

var. ? decurrens, T. & G.
Leaves elongated lanceolate, rather thin, decurrent on the stem! the broad decurrent portions usually terminated by short and triangular divaricate lobes, thus appearing sagittate. * * Perhaps a distinct species.—Flora N. A., II, 188.
Fulton county, Wolf.

diffusa, L'Her. S.
Washington county, Vasey; St. Clair, Brendel; and southward.

SOLIDAGO

bicolor, L.
McHenry county, Vasey; Union, Forbes.

latifolia, L. C. & N.
Rich woods. Menard county, Hall; and northward. Frequent.

cæsia, L.
Rich woods. Scarce.

stricta, Ait. N.
Wet places. Winnebago county, Bebb.

speciosa, Nutt.
Prairies and barrens. Common.

petiolaris, Ait.
Rocky bluffs opposite St. Louis, Engelmann.

Virga-aurea, L.
var. humilis, Gray. N.
Near Chicago, Babcock.

rigida, L.
Dry prairies and barrens. Common.

Ohioensis, Riddell. N.
Moist prairies. Peoria county, Brendel; and northward.

Riddellii, Frank.
Low prairies. Frequent.

neglecta, T. & G. N.
Wet places. Peoria county, Brendel; near Chicago, Babcock; McHenry county, Vasey.

patula, Muhl.
Swamps. Scarce.

arguta, Ait.
Prairies. Near Chicago, Babcock; Peoria county, Brendel; Washington, French. Scarce.

Muhlenbergii, T. & G.
Near Chicago, Babcock.

altissima, L.
Hancock county, Mead; Fulton, Wolf; southern Illinois, Vasey.

ulmifolia, Muhl.
Low copses. Common.

Drummondii, T. & G. S.
Rocky hillsides opposite St. Louis, Engelmann.

odora, Ait. S.
Wabash county, Schneck.

nemoralis, Ait.
Prairies and barrens. Common.

radula, Nutt. W.
With the last species. Henderson county; Fulton, Wolf; Menard, Hall.

Missouriensis, Nutt.
Prairies. Common.

Canadensis, L.
Borders of woods, fields, &c. Common.

serotina, Ait.
Woods, and open places in low grounds. Common.

gigantea, Ait.
With the last. Common.

lanceolata, L.
Low grounds. Common.

tenuifolia, Pursh.
Dry places, throughout. Frequent.

CHRYSOPSIS
villosa, Nutt.
Prairies. Near Dixon, Vasey: Peoria county, Brendel; Mason, Mead, Bebb.

INULA
Helenium, L.
Sparingly escaped from gardens to roadsides and waste places.

PLUCHEA
fœtida, DC. S.
River banks. Wabash and Jackson counties, and southward. Frequent.

POLYMNIA
Canadensis, L.
Damp hillsides in woods. Scarce.

var. discoidea, Gray.
Carroll county, Henry Shimer, in Gray's Manual.

Uvedalia, L. S.
St. Clair county, Brendel; Wabash, Schneck: and southward.

CHRYSOGONUM
Virginianum, L.
Credited to Illinois in Gray's Manual.

SILPHIUM
laciniatum, L.
Prairies. Common.

terebinthinaceum, L.
Prairies. Common.

trifoliatum, L.
Near Thornton, Cook county, Hill.

integrifolium, Michx.
Prairies. Common.
Var LÆVE at Normal, McLean county, Hill.

perfoliatum, L.
Rich soil along streams. Common.

PARTHENIUM
integrifolium, L.
Prairies. Common.

IVA
ciliata, Willd.
Union county, Forbes.

AMBROSIA
bidentata, Michx. C. & S.
Prairies. Peoria county, Brendel; and southward. Frequent.

trifida, L.
River banks. Common.

artemisiæfolia, L.
Fields, waste places, especially in low grounds. Common.

psilostachya, DC.
Dry prairies and barrens. Common.

XANTHIUM

strumarium, L.

Banks of streams. Common.

var. echinatum, Gray.

Near Chicago, Babcock, Vasey: Warsaw, Hancock county, Mead.

spinosum, L.

Chicago, Cairo and Mound City, Vasey.

ECLIPTA

procumbens, Michx. C. & S.

River banks, from Kankakee, Peoria and Henderson counties southward.

HELIOPSIS

lævis, Pers.

Dry woods, &c. Common.
Also the var. SCABRA.

ECHINACEA

purpurea, Mœnch.

Prairies. Common.

angustifolia, DC.

Prairies. Common.

RUDBECKIA

laciniata, L.

Woods along streams. Frequent.

subtomentosa, Pursh.

Low prairies. Common.

triloba, L. C. & S.

Dry woods. Henderson, Peoria and Kankakee counties, and southward.

speciosa, Wenderoth. C. & S.

Menard county, Hall; Wabash, Schneck.

hirta, L.

Dry prairies and woods. Common.
Mr. Bebb has seen this with a yellow disk.

LEPACHYS

pinnata, T. & G.

Dry prairies and woods. Common.

HELIANTHUS

annuus, L.

Persistent about gardens.

atrorubens, L.

Washington Co., French; and probably southward.

rigidus, Desf.

Dry prairies. Common.

lætiflorus, Pers.

Dry prairies, throughout. Infrequent.

occidentalis, Riddell.

Dry prairies and barrens. Common.

mollis, Lam.

With the last. Rare northward.

microcephalus, T. & G. S.

Wabash county, Schneck; Franklin, Forbes; and southward.

giganteus, L.

Low grounds. Near Chicago, Babcock; Peoria county, Brendel; Wabash, Schneck.

grosse-serratus, Martens.

Prairies. Common.

strumosus, L.

Woods and low grounds. Frequent.

divaricatus, L.

Dry woods, &c. Near Chicago, Babcock; Hancock county, Mead; Wabash, Schneck.

hirsutus, Raf.

Dry prairies, &c. Scarce.

tracheliifolius, Willd.

Copses. Near Chicago, Babcock; Peoria county, Brendel; Wabash, Schneck.

decapetalus, L.

Moist copses. Frequent.

doronicoides, Lam.

Banks of streams. Common.

tuberosus, L.

Sparingly escaped from gardens.

ACTINOMERIS

squarrosa, Nutt. C. & S.

Peoria county, Brendel; Kankakee, Hill; and southward.

helianthoides, Nutt.

Near Chicago, Babcock; Peoria, Brendel; and southward.

COREOPSIS

auriculata, L. S.

Rich woods. Washington county, Vasey; and southward.

lanceolata, L.

Rich soil. Frequent.

palmata, Nutt.

Dry prairies and barrens. Common.

tripteris, L.
Open, dry woods. Common.

aristosa, Michx.
Low grounds. Frequent.

var. mutica, Gray.
With the typical form. Scarce.

trichosperma, Michx.
Low grounds. McHenry county, Vasey; near Chicago, Babcock; Fulton county, Wolf. Scarce.

discoidea, T. & G. C. & S.
Frequent in Mississippi bottoms in Henderson county; Pulaski, Vasey. Rare.

BIDENS
frondosa, L.
Low grounds. Common.

connata, Muhl.
Low grounds. Common.
Var. COMOSA is common along the Mississippi about Oquawka.

cernua, L. N.
Wet places. Peoria and Henderson counties, and northward.

chrysanthemoides, Michx.
Banks of streams. Common.

Beckii, Torr.
Illinois—Gray's Manual.

bipinnata, L. C. & S.
In dry soil. Menard county, Hall; and southward.

VERBESINA
Siegesbeckia, Michx. S.
Banks of the Ohio, Vasey.

Virginica, L.
Illinois—Gray's Manual.

DYSODIA
chrysanthemoides, Lag.
Roadsides and waste places. Common.

HYMENOPAPPUS
scabiosæus, L'Her.
Barrens of Mason county, Mead, Hall.

ACTINELLA
scaposa, Nutt., var. glabra, Gray.
On an Indian mound at Joliet, Will county, Dr. Scammon, W. Boott, in Gray's Manual.

HELENIUM
autumnale, L.
Banks of streams. Common.

LEPTOPODA
brachypoda, T. & G. C. & S.
Barrens of Hancock county, Mead; and southward.

MARUTA
Cotula, DC.
Roadsides, &c. Common.

ACHILLEA
Millefolium, L.
Prairies and barrens. Common.

LEUCANTHEMUM
vulgare, Lam.
Chicago, Babcock; Kankakee, Hill; once found at Peoria, Brendel; Cass county, Mead. Rare.

MATRICARIA
discoidea, DC. W.
Opposite St. Louis, Engelmann.

TANACETUM
vulgare, L.
Sparingly escaped from gardens to roadsides.

ARTEMISIA
dracunculoides, Pursh.
Near Dixon, Lee county, Vasey.

caudata, Michx.
Sandy prairies and barrens. Common.

Ludoviciana, Nutt. N.
Henderson county; Peoria, Brendel; and northward.

serrata, Nutt. N.
"Stem tall and herbaceous, leaves lanceolate, acuminate at either extremity, margin serrate, upper side smooth, under tomentose and white: fls. paniculate, partly glomerate, erect; calyx small cylindric-ovate, and nearly smooth. Stem 5 or 6 feet high: fls. very small; leaves 6 to 8 inches long and an inch wide, sharply but not very regularly serrate. Hab.: Near the Prairie du Chien, on the banks of the Mississippi, also on the banks of the Missouri, in open alluvial soil."—NUTT. GENERA, II. 142.
Winnebago county, Bebb; McHenry, Vasey.

biennis, Willd.
Low grounds, especially by roadsides. Common.

GNAPHALIUM
polycephalum, Michx.
Dry woods, &c. Common.

purpureum, L.
McHenry county, Vasey: Fulton, Wolf: Peoria, (only once found), Brendel: Wabash, Schneck.

ANTENNARIA

margaritacea, R. Br.

Not rare in Wabash county, Schneck.

plantaginifolia, Hook.

Dry open places. Common.

ERECHTHITES

hieracifolia, Raf.

Woods. Common.

CACALIA

suaveolens, L.

Rich woods. McHenry county, Vasey; Peoria and Fulton, Brendel, Wolf: Hancock, Mead; Wabash, Schneck. Scarce.

reniformis, Muhl. C. & S.

Rich woods. Peoria county, Brendel; and southward. Scarce.

atriplicifolia, L.

Rich woods. Frequent.

tuberosa, Nutt.

Prairies. Frequent.

SENECIO

lobatus, Pers. S.

Jackson county, French.

aureus, L.

Vars. BALSAMITÆ and OBOVATUS. Common.

CIRSIUM

lanceolatum, Scop.

Roadsides. Common.

Pitcheri, T. &. G. N-E.

Lake shore about Chicago, Babcock, Vasey.

discolor, Spreng.

Open woods, &c. Common.

altissimum, Spreng.

With the last species. Intermediate forms occur, probably hybrids—Bebb.

Virginianum, Michx.
var. filipendulum, Gray. S.

Jackson and Union counties, French, Vasey.

muticum, Michx.

Woods in low grounds. Frequent.

pumilum, Spreng.

Dry woods and fields. Scarce.

arvense, Scop.

Along railroads about Chicago, Babcock, Vasey: in one locality near Peoria, Brendel: Fulton county, Wolf. Fortunately rare as yet. Since the enactment of the Canada Thistle Law most of the other species have suffered at the hands of the Commissioners, especially LANCEOLATUM.

LAPPA

officinalis, All., var. major.

Roadsides and waste places. Common.

KRIGIA

Virginica, Willd.

Fulton county, Wolf; Mason, Brendel; Menard, Hall; and probably southward.

CYNTHIA

Virginica, Don.

Prairies. Frequent.

Dandelion, DC. S.

Washington county, Vasey; Wabash, Schneck; and southward.

TROXIMON

cuspidatum, Pursh. C. & N.

Prairies. Menard county, Hall; and northward. Now extinct in many localities where it was once found. Scarce.

HIERACIUM

Canadense, Michx. N.

Near Chicago, Babcock, Munroe; Winnebago county, Bebb; McHenry, Vasey.

scabrum, Michx.

Dry open woods. Scarce.

longipilum, Torr.

Prairies. Scarce.

Gronovii, L.

Dry woods. Scarce.

NABALUS

albus, Hook.

Rich woods. Frequent.

altissimus, Hook.

Rich woods. Boone county, French: not rare in Wabash, Schneck. Rare.

racemosus, Hook. C. & N.

Menard county, Hall; and northward. Frequent.

asper, T. & G.

Prairies. Frequent.

crepidineus, DC. C. & S.

Rich woods along streams. Henderson county; Peoria and Fulton, Brendel, Wolf; Hancock, Mead; Menard, Hall: and probably southward.

TARAXACUM
Dens-leonis, Desf.
Fie'ds, roadsides, &c. Common.

LACTUCA
Canadensis, L.
Rich soil. Common.
var. integrifolia, T. & G.
Dry open woods. Frequent.
var. sanguinea, T. & G.
Peoria and Fu'ton counties, Brendel, Wolf; Wabash, Schneck.

MULGEDIUM
acuminatum, DC. C. & S.
Peoria county, Brendel: and southward. Scarce.
Floridanum, DC.
Rich soil. Frequent.
leucophæum, DC.
Low grounds. Winnebago county, Bebb; near Chicago, Munroe; Wabash county, Schneck.

SONCHUS
oleraceus, L.
Waste places. Frequent.
asper, Vill.
Waste places. Frequent.

LOBELIACEÆ.

LOBELIA
cardinalis, L.
River banks. Common.
syphilitica, L.
Low grounds. Common.
puberula, Michx. S.
Jackson county, Forbes.
leptostachys, A. DC. C. & S.
Peoria and Kankakee counties, and southward.
inflata, L.
Dry or damp woods and open places.
spicata, Lam.
Prairies. Common.
Kalmii, L. N.
Peoria county, Brendel; Chicago, Babcock.

CAMPANULACEÆ.

CAMPANULA
rotundifolia, L.
Jackson county, French, and not rare north.
aparinoides, Pursh.
Wet meadows. Common.
divaricata, Michx. S.
White county, rare, Schneck.
Americana, L.
Rich woods. Common.

SPECULARIA
perfoliata, A. DC.
Dry open places. Common.

ERICACEÆ.

GAYLUSSACIA
resinosa, T. & G.
Ogle county, Bebb; Kankakee, Hill; Chicago, Babcock; also in Union county, Wolf.

VACCINIUM
macrocarpon, Ait. N.
Swamps. Thornton, Cook county, Hill; McHenry, Vasey.
arboreum, Marshall. S.
Jackson and Union counties, Vasey.
Pennsylvanicum, Lam. N.
Kankakee county, Hill.
Canadense, Kalm. N.
Near Dixon, Vasey; Thornton, Cook co., Hill.
vacillans, Solander.
Dry woods. Near Thornton, Hill; Peoria county, Brendel; Jackson and Union, French, Forbes.
corymbosum, L.
Winnebago county, Bebb.
var. atrococcum, Gray.
Near Dixon, Lee county, Vasey.

ARCTOSTAPHYLOS
Uva-ursi, Spreng. N.
Peoria county, Brendel: near Chicago, Babcock. Rare.

ANDROMEDA
polifolia, L. N.
McHenry county, Vasey.

AZALEA
nudiflora, L. S.
Common in the Pine Hills, in the western part of Union county; it also occurs along bluffs bordering a little stream on the road from South Pass to Anna.—Forbes.

PYROLA

elliptica, Nutt. N.

Rich woods. Near Chicago, Babcock: McHenry, Vasey; and other counties in the northern tier.

chlorantha, Swartz. N.

McHenry county, Vasey.

CHIMAPHILA

umbellata, Nutt.

Jackson county, French; McHenry, Vasey.

MONOTROPA

uniflora, L.

Rich woods. Frequent.

AQUIFOLIACEÆ.

ILEX

decidua, Walt. S.

Low grounds. St. Clair county, Brendel; Wabash, Schneck; and southward.

verticillata, Gray.

Low grounds, throughout. Scarce.

EBENACEÆ.

DIOSPYROS

Virginiana, L.

Peoria county, Brendel; and southward.

SAPOTACEÆ.

BUMELIA

lycioides, Gærtn. S.

Low grounds. Union county, Wolf; and southward.

lanuginosa, Pers. S.

"Opposite St. Louis and southward"—Gray's Manual.

PLANTAGINACEÆ.

PLANTAGO

major, L.

Waste places. Common.

sparsiflora, Michx. C. & S.

Fulton county, Wolf; Menard, Hall; and southward.

cordata, Lam.

Wet places. Frequent.

lanceolata, L.

Roadsides, &c., in a few localities.

Virginica, L.

Dry grounds. Peoria county, Brendel; and southward.

pusilla, Nutt. C. & S.

Hancock county, Mead; and southward.

Patagonica, Jacq.,
var. aristata, Gray. S-W.

Adams county, Mead: and southward.

PRIMULACEÆ.

ANDROSACE

occidentalis, Pursh. N.

Hillsides. Fulton county, Wolf; Kankakee, Hill; and northward.

DODECATHEON

Meadia, L.

Prairies and open rich woods. Frequent.

var. Frenchii, Vasey.

"Distinguished by its small size, few-flowered scape, and thin, broad ovate leaves, abruptly contracted into a margined petiole which is longer than the leaf."—Vasey.

Bluffs of Jackson and Union counties, French.

LYSIMACHIA

thyrsiflora, L. C. & N.

Swamps and ponds. Cass county, Mead; and northward. Scarce.

stricta, Ait.

Low grounds. Scarce.

ciliata, L.

Woods along streams. Common.

lanceolata, Walt.

Low grounds. Common.

longifolia, Pursh. C. & N.

Low grounds from Menard county northward.

ANAGALLIS

arvensis, L.

A common garden weed about Athens, Menard county, Hall.

CENTUNCULUS

minimus, L. C. & S.

Low grounds. Hancock county, Mead: Menard, Hall: and southward.

SAMOLUS

Valerandi, L.,
var. Americanus, Gray.

Wet places. Frequent.

HOTTONIA

inflata, Ell. S.

Wabash county, Schneck; Union, Forbes; and southward. Rare.

LENTIBULACEÆ.

UTRICULARIA

vulgaris, L.

Ponds. Frequent.

minor, L. N.

McHenry county, Vasey.

intermedia, Hayne. C. & N.

Peoria county, Brendel; McHenry, Vasey.

biflora, Lam.

Credited to Illinois in Gray's Manual.

gibba, L.

McHenry county, Vasey; in a pond near Pinckneyville, Perry county, Forbes. Rare.

BIGNONIACEÆ.

BIGNONIA

capreolata, L. S.

River banks. Near Alton, Miss Holmes; Wabash county, Schneck; and southward.

TECOMA

radicans, Juss.

River banks, from Henderson and Peoria counties southward.

CATALPA

bignonioides, Walt. S.

Common and undoubtedly indigenous in Wabash county, Schneck, and in other lower counties along the Ohio, Vasey.

MARTYNIA

proboscidea, Glox.

Probably indigenous in southern counties; and a common roadside weed in many localities north.

OROBANCHACEÆ.

EPIPHEGUS

Virginiana, Bart. S.

Near Jonesboro, Union county, Vasey.

CONOPHOLIS

Americana, Wallroth.

Menard county, Hall; Marion, Bebb.

PHELIPÆA

Ludoviciana, Don. C.

In the Sangamon river bottoms, Menard county, mostly parasitic on AMBROSIA TRIFIDA; very plentiful some seasons, in Sept. and Oct.—Hall.

APHYLLON

uniflorum, T. & G.

Woods. Frequent.

fasciculatum, T. & G. N.

Near Dixon, Lee county, Vasey.

SCROPHULARIACEÆ.

VERBASCUM

Thapsus, L.

Roadsides. Common.

Blattaria, L.

Roadsides, &c. Scarce.

LINARIA

Canadensis, Spreng.

Prairies and barrens. Scarce.

vulgaris, Miller.

Escaped from gardens to roadsides.

SCROPHULARIA

nodosa, L.

Rich woods. The narrow leaved form common by roadsides.

COLLINSIA

verna, Nutt.

Damp places, throughout.

CHELONE

glabra, L.

Banks of streams. Frequent.

PENTSTEMON

pubescens, Solander.

Prairies and barrens. Frequent.

Digitalis, Nutt.

River banks, throughout. Scarce.

grandiflorus, Fraser. N-W.

Frequent along the Mississippi in Henderson county above Oquawka, especially at Bald Bluff; Jo Daviess co., above Galena, in 1853, Brendel.

MIMULUS

ringens, L.

Wet places. Common.

alatus, Ait. C. & S.

Low grounds. Hancock county, Mead; Fulton, Wolf; and southward.

Jamesii, Torr. N.
Cold springs. Peoria county, Brendel; near Elgin, Kane county, Vasey; Winnebago, Bebb. Rare.

CONOBEA
multifida, Benth.
River banks and sand bars. Henderson, Peoria and Kankakee counties, and southward.

HERPESTIS
rotundifolia, Pursh. C. & S.
Wet places. Hancock county, Mead; Menard, Hall; and southward. Rare.

GRATIOLA
Virginiana, L.
Wet places. Common.
sphærocarpa, Ell. C. & S.
Ponds and ditches, from Henderson co. southward. Rare.

ILYSANTHES
gratioloides, Benth.
Wet places. Common.

SYNTHYRIS
Houghtoniana, Benth. C. & N.
Prairies and barrens. Menard county, Hall; Henderson, (common about Oquawka); Lee, Vasey; Ogle, Bebb. Scarce.

VERONICA
Virginica, L.
Woods. Common.
Anagallis, L. C. & N.
Ponds and ditches. Menard county, Hall; and northward. Scarce.
Americana, Schw.
Peoria county, Brendel.
scutellata, L. N.
Bogs. Fulton county, Wolf; and northward.
serpyllifolia, L.
Fulton county, Wolf: and southward. Scarce.
peregrina, L.
Common in wet and dry fields, &c.
arvensis, L.
Fields, &c. Frequent.

BUCHNERA
Americana, L.
Menard county, Hall; St. Clair, Brendel. Rare.

SEYMERIA
macrophylla, Nutt.
River banks, throughout. Rare.

GERARDIA
purpurea, L.
Low grounds. Common.
aspera, Dougl.
Low grounds. Scarce.
tenuifolia, Vahl.
Open woods, &c. Common.
setacea, Walt.
McHenry county, Vasey; Winnebago, Bebb; Menard, Hall.
flava, L.
Hancock county, Mead.
quercifolia, Pursh.
Rich woods. Infrequent.
integrifolia, Gray.
Fulton county, Mead.
grandiflora, Benth.
Woods. McHenry county, Vasey; Winnebago, Bebb; Peoria, Brendel; Menard, Hall. Rare.
pedicularia, L.
Woods. Frequent.
auriculata, Michx.
Low grounds. Frequent.

CASTILLEIA
coccinea, Spreng.
Prairies. Common.
sessiliflora, Pursh. N.
Winnebago county, Bebb; McHenry, Vasey.

PEDICULARIS
Canadensis, L.
Dry prairies and woods. Common.
lanceolata, Michx.
Wet places. Common.

ACANTHACEÆ.

DIANTHERA
Americana, L.
Margins of streams. Frequent.

RUELLIA
ciliosa, Pursh.
Dry grounds. Common.

strepens, L.
Rich woods. Infrequent.

VERBENACEÆ.

VERBENA
angustifolia, Michx.
Dry grounds, throughout.
hastata, L.
Low grounds. Common.
urticifolia, L.
Roadsides, &c. Common.
stricta, Vent.
Roadsides in dry grounds. Common.
bracteosa, Michx.
With the last. Common.
Aubletia, L. S.
Frequent and undoubtedly indigenous in the Pine Hills of Union county, Forbes.

LIPPIA
lanceolata, Michx.
Low grounds. Common.

PHRYMA
Leptostachya, L.
Rich woods. Frequent.

LABIATÆ.

TEUCRIUM
Canadense, L.
Low grounds. Common.

TRICHOSTEMA
dichotomum, L.
Dry grounds. Scarce.

ISANTHUS
cæruleus, Michx.
Dry hillsides, fields, &c. Frequent.

MENTHA
viridis, L.
Wet places. Scarce.
piperita, L.
Wet places. Rare.
Canadensis, L.
Low grounds. Common.

LYCOPUS
Virginicus, L.
Low grounds. Common.
Europæus, L.,
var. integrifolius, Gray.
Low grounds. Frequent.
var. sinuatus, Gray.
Low grounds. Common.

CUNILA
Mariana, L. S.
Marion county, Vasey ; and southward.

PYCNANTHEMUM
incanum, Michx.
Rocky woods and hills. Peoria county, Munroe ; and southward.
pilosum, Nutt.
Dry woods, &c. Henderson, Peoria and Kankakee counties, and southward.
muticum, Pers. S.
Wabash county, (rare), Schneck.
lanceolatum, Pursh.
Dry woods and hillsides. Common.
linifolium, Pursh.
With the last. Scarce northward.

CALAMINTHA
glabella, Benth., var. Nuttallii, Gr.
Near Chicago, Babcock, Vasey ; Kankakee co., Hill. Rare.

HEDEOMA
pulegioides, Pers.
Dry woods and roadsides. Common.
hispida, Pursh. N. & W.
Sandy barrens and river banks. Winnebago county, Bebb ; McHenry, Vasey ; Lee, Miss Holmes ; Henderson ; St. Clair, Brendel.

COLLINSONIA
Canadensis, L. S.
Wabash county, Schneck ; Jackson, French ; and southward.

SALVIA
lyrata, L. S.
Jackson county, Vasey ; and southward.

MONARDA
Clinopodia, L.
"Sparingly villous-pubescent or nearly glabrous ; stem rather acutely angled (2–4 ft. high) : leaves ovate-lanceolate and ovate, acuminate, slender petioled, thin, coarsely and sharply serrate ; bracts whitish ; calyx moderately hirsute in the throat, hardly more so than in M. DIDYMA :

corolla an inch long, slightly pubescent, greenish-white or flesh-colored."—Gray.

In open rich woods near Oquawka, Henderson county; Marion county, Bebb.

fistulosa, L.

"Soft-pubescent with short hairs, or somewhat hoary, or glabrate; stem mostly with obtuse angles, (1–3 ft. high); leaves commonly of rather firmer texture than in the preceding; bracts whitish or rarely purplish, dotted, the inner mostly hirsute-ciliate; calyx conspicuously and densely bearded at the throat; corolla (1–1½ in. long) pubescent, at least on the upper lip, purple or purplish."—Gray.

Wooded hillsides, &c. Common.

Bradburiana, Beck.

Woods. Schuyler county, Mead; and southward. Also near Chicago, Babcock—Int.?

punctata, L.

Barrens. Scarce.

BLEPHILIA

ciliata, Raf.

Dry open places, throughout.

hirsuta, Benth.

Rich woods. Frequent.

LOPHANTHUS

nepetoides, Benth.

Borders of woods. Common.

scrophulariæfolius, Benth.

With the last. Common.

NEPETA

Cataria, L.

Roadsides. Frequent.

Glechoma, Benth.

Occurs sparingly about gardens and in fields.

SYNANDRA

grandiflora, Nutt. S.

Jackson county, French; Union, Forbes.

PHYSOSTEGIA

Virginiana, Benth.

The broad leaved form on river banks, a narrow leaved, taller form in dry woods. Common.

BRUNELLA

vulgaris, L.

Woods. Common.

SCUTELLARIA

versicolor, Nutt.

Woods along streams. Frequent.

canescens, Nutt. C. & S.

Menard county, Hall; and southward.

serrata, Andrews. S.

Woods. Wabash county, Schneck.

nervosa, Pursh. C. & S.

Woods. Peoria county, Brendel; and southward.

parvula, Michx.

Dry hills and barrens. Common.

var. mollis, Gray.

"Diffuse, rather large, softly pubescent throughout with sub-viscid hairs; leaves often ¾ of an inch long."

Sandy banks and rocky cliffs. Along the Mississippi north of Oquawka; also in Menard co., Hall: Fulton, Wolf: and northward to Kankakee (Hill) and Ogle (Bebb).

galericulata, L.

Damp woods, throughout. Scarce.

lateriflora, L.

Banks of streams. Common.

MARRUBIUM

vulgare, L.

Roadsides and waste places. Common.

STACHYS

palustris, L.

Wet places. Common.

var. aspera, Gray.

Low grounds. Common.

var. glabra, Gray.

Woods along streams. Frequent.

var. cordata, Gray.

Low grounds. Scarce.

hyssopifolia, Michx.

Illinois—Gray's Manual.

LEONURUS

Cardiaca, L.

Waste places. Common.

BORRAGINACEÆ.

SYMPHYTUM

officinale, L.

Sparingly escaped from gardens.

ONOSMODIUM

Carolinianum, DC.

River banks. Frequent.

molle, Michx.
Dry hillsides, &c.

LITHOSPERMUM
arvense, L.
Only in a few localities.

angustifolium, Michx.
(Including L. LONGIFLORUM, Spreng., which is only the early flowering form—as was first discovered by Mr. Bebb, in 1873.)
Prairies, throughout. Scarce.

latifolium, Michx.
Borders of woods. Frequent.

hirtum, Lehm.
Dry prairies and barrens. Common.

canescens, Lehm.
Dry prairies and barrens. Common.

MERTENSIA
Virginica, DC.
Rich woods. Frequent.

MYOSOTIS
verna, Nutt.
Dry hills. Frequent.

ECHINOSPERMUM
Lappula, Lehm.
Roadsides and waste places. Common.

CYNOGLOSSUM
officinale, L.
Waste places. Common.

Virginicum, L. S.
Rich woods. Marion county, Bebb; and southward.

Morisoni, DC.
Borders of woods. Common.

HELIOTROPIUM
Curassavicum, L. C. & S.
Menard county, Hall; and southward.

HELIOPHYTUM
Indicum, DC. C. & S.
Waste places. From Menard county southward.

HYDROPHYLLACEÆ.

HYDROPHYLLUM
macrophyllum, Nutt. S.
Wabash county, Schneck.

Virginicum, L.
Rich woods. Frequent.

Canadense, L.
Rich woods. Scarce.

appendiculatum, Michx.
Rich woods. Frequent.

ELLISIA
Nyctelea, L.
(Including E. AMBIGUA, Nutt.) Common.

PHACELIA
bipinnatifida, Michx. S.
Rich woods. St. Clair county, Brendel; Wabash, Schneck; and southward.

Purshii, Buckley. S.
Moist shaded banks. Wabash county, Schneck; Union, Forbes.

HYDROLEA
affinis, Gray. S.
Union county, Brendel; Pulaski, Vasey.

POLEMONIACEÆ.

POLEMONIUM
reptans, L.
Woods. Frequent.

PHLOX
paniculata, L. C. & S.
Woods. Hancock county, Mead; Mason, Brendel; and southward.

maculata, L.
Rich woods. Near Dixon, Vasey; Woodford county, Brendel; Hancock, Mead. Rare.

glaberrima, L.
Prairies. Frequent.

pilosa, L.
Prairies and open dry woods. Common.

divaricata, L.
Rich woods. Common.

Stellaria, Gray. S.
"Glabrous, cæspitose, somewhat perennial at base; leaves narrow linear and rather rigid, the upper slightly ciliate at base; peduncles elongated, mostly 1-flowered: corolla pale blue or nearly white, the lobes bifid with short-oblong segments. Cliffs of the Kentucky river, only by Dr. Short."
"Bake Oven" and other rocks about Grand Tower, Jackson county, French.

bifida, Beck.

Prairies and dry woods. Common on lake shore south of Chicago, Babcock; Kankakee county, Hill; Peoria, Brendel; Mason and Cass, Mead; Menard, Hall; and southward. (Union county, Forbes.) Scarce.

CONVOLVULACEÆ.

QUAMOCLIT

coccinea, Mœnch. C. & S.

Damp fields and river banks from Hancock co. southward.

IPOMŒA

Nil, Roth.

Damp fields, &c. Henderson county; and southward.

lacunosa, L. C. & S.

River banks. Henderson and Peoria counties, and southward.

pandurata, Meyer.

Banks of streams. Frequent.

CALYSTEGIA

sepium, R. Br.

Moist banks and low grounds. Common.

spithamæa, Pursh.

Dry open places. Frequent.

BONAMIA

Pickeringii, Gray. Int.?

Common and perfectly hardy on a sandy prairie near the Mississippi, 4 miles north of Oquawka, Henderson county. If introduced it must have been long since.

CUSCUTA

tenuiflora, Engelm.

River banks, from Menard county northward.

inflexa, Engelm.

In dry grounds. Peoria and Fulton counties, Brendel, Wolf.

decora, Choisy. S-W.

Low prairies. Fulton county, Wolf; Menard, Hall; Washington, Vasey.

arvensis, Beyrich.

Dry prairies and barrens. Kankakee county, Hill; Fulton, Wolf; Cass, near Beardstown, Mead.

chlorocarpa, Engelm.

Low grounds. Kankakee county, Hill; Peoria, Brendel; Wabash, Schneck.

Gronovii, Willd.

Low grounds. Frequent.

compacta, Juss. C. & S.

From Kankakee and Peoria counties southward.

glomerata, Choisy.

Damp prairies. Frequent.

SOLANACEÆ.

SOLANUM

Dulcamara, L.

Sparingly escaped from cultivation to roadsides.

nigrum, L.

Waste places. Common.

Carolinense, L. C. & S.

Fields and river banks. Henderson and Peoria counties and southward. Common.

PHYSALIS

Philadelphica, Lam.

Rich grounds. Kankakee county, Hill; Fulton, Wolf; Henderson; Wabash, Schneck. Rare.

angulata, L.

Menard county, Hall; Union, Vasey.

pubescens, L. C. & S.

Low grounds. Kankakee county, Hill; Fulton, Wolf; and southward.

viscosa, L.

Dry grounds. Frequent.

Pennsylvanica, L.

In dry or damp grounds. Frequent.

var. lanceolata, Gray.

Sandy prairies and barrens. Frequent.

NICANDRA

physaloides, Gœrtn.

Waste places. Scarce.

DATURA

Stramonium, L.

Roadsides and waste places. Common.

Tatula, L.

With the last. Common.

GENTIANACEÆ.

SABBATIA

angularis, Pursh. C. & S.

Dry grounds from Hancock county southward. Frequent.

FRASERA

Carolinensis, Walt.

Fulton county, Wolf; and frequent southward.

GENTIANA

quinqueflora, Lam.

Hillsides. Scarce.

var. occidentalis, Gray.

With the typical form. Frequent.

crinita, Frœl. N.

Low grounds. Common near Chicago, Babcock; Winnebago county, Bebb.

detonsa, Fries. N.

With the last.

alba, Muhl.

Low grounds, throughout. Frequent.

Andrewsii, Griseb.

With the last. Frequent.

Saponaria, L.

Moist woods. Thornton, Cook county, Hill; Ogle, Miss Holmes. Rare.

puberula, Michx.

Dry prairies. Frequent.

BARTONIA

tenella, Muhl.

Woods. Kankakee county, Hill.

OBOLARIA

Virginica, L. S.

Rich woods. Jonesboro, Union county, Vasey; Wabash, Schneck.

MENYANTHES

trifoliata, L. N.

Bogs. Peoria county, Brendel; and northward.

LOGANIACEÆ.

SPIGELIA

Marilandica, L. S.

Rich woods. Near Jonesboro, Union county, Vasey; Jackson county, Brendel.

APOCYNACEÆ.

AMSONIA

Tabernæmontana, Walt. C. & S.

Low grounds. Peoria county, Brendel; and southward.

FORSTERONIA

difformis, A. DC. S.

River banks. Union county, Brendel.

APOCYNUM

androsæmifolium, L.

Borders of woods. Common.

cannabinum, L.

Banks of streams. Common.

ASCLEPIADACEÆ.

ASCEPIAS

Cornuti, Decaisne.

Rich soil. Common.

Sullivantii, Engelm. C. & N.

Low grounds. Frequent from Menard county northward.

phytolaccoides, Pursh.

Open rich woods, hillsides. Frequent.

purpurascens, L.

Borders of woods. Frequent.

variegata, L.

Dry woods. McLean county near Bloomington. Vasey; Wabash, Schneck. Rare.

ovalifolia, Decaisne. N.

Near Ringwood, McHenry county, Vasey.

quadrifolia, Jacq.

Hillsides in woods. Henderson county; Peoria. Brendel; Menard, Hall. Rare.

perennis, Walt. S.

Low grounds. Wabash county, Schneck; Jackson, Brendel; and southward.

incarnata, L.

Low grounds. Common.

obtusifolia, Michx.

Sandy prairies and barrens. Frequent.

Meadii, Torr. W.

Prairies. Near Augusta, Hancock co., Mead: Peoria, Brendel: Menard, Hall. Rare.

tuberosa, L.

Dry hills and barrens. Common.

verticillata, L.

Prairies and barrens. Common.

ACERATES

viridiflora, Ell.

Barrens. Common.

lanuginosa, Decaisne. N.

Prairies. Winnebago county. Bebb : McHenry. Vasey.

longifolia, Ell.

Moist prairies. Frequent.

paniculata, Decaisne. C. & S.

Prairies. Near Bloomington and Decatur, Miss Holmes ; Marion county, Bebb, Vasey.

ENSLENIA

albida, Nutt. C. & S.

River banks. Hancock county. Mead : Menard, Hall ; and southward.

GONOLOBUS

lævis, Michx. S.

Wabash county, Schneck.

OLEACEÆ.

FRAXINUS

Americana, L.

River banks. Common.

pubescens, Lam.

Banks of streams. Frequent.

viridis, Michx. f.

River banks. Frequent.

sambucifolia, Lam. C. & N.

Swamps. Fulton and Peoria counties, Wolf, Brendel ; Kankakee, Hill : and probably north.

quadrangulata, Michx.

Rich woods. Frequent.

FORESTIERA

acuminata, Poir. C. & S.

River banks. Menard county, Hall ; and southward.

ARISTOLOCHIACEÆ.

ASARUM

Canadense, L.

Rich woods. Common.

ARISTOLOCHIA

Serpentaria, L. C. & S.

Rich woods, from Peoria county (Brendel) southward.

tomentosa, Sims. S.

River banks. Wabash county, Schneck ; Jackson, Vasey ; and southward.

NYCTAGINACEÆ.

OXYBAPHUS

nyctagineus, Sweet.

Sandy and rocky river banks and barrens. Likely to become a troublesome weed in cultivated grounds, where it spreads rapidly. Frequent.

PHYTOLACCACEÆ.

PHYTOLACCA

decandra, L.

Low grounds, waste places. Frequent.

CHENOPODIACEÆ.

CYCLOLOMA

platyphyllum, Moq. W. & N.

Sandy river banks. Menard county, Hall ; Fulton, Wolf ; common along the Mississippi about Oquawka, and probably northward. Chicago, (rare), Babcock ; perhaps introduced. Also at Grand Tower, Jackson county, French, doubtless adventive from the north.

CHENOPODIUM

album, L.

Fields, gardens, &c. Common.

glaucum, L. N.

Streets of Chicago, Babcock ; Winnebago county, Bebb ; Kankakee, Hill. Scarce.

urbicum, L.

Waste places. Scarce.

murale, L. S.

Southern Illinois, Vasey.

hybridum, L.

Waste places. Frequent.

Botrys, L.

Escaped from gardens to roadsides. Common.

ambrosioides, L.

Roadsides, &c. Common.

var. anthelminticum, Gr.

Roadsides, &c. Common.

BLITUM

capitatum, L. N.

McHenry county, Vasey.

ATRIPLEX

patula, L.

Abundant at Canton, Fulton county, Wolf ; Chicago, Babcock.

CORISPERMUM

hyssopifolium, L. N-E.

Abundant on lake shore about Chicago, Babcock.

AMARANTACEÆ.

AMARANTUS

paniculatus, L.

Sparingly escaped from gardens.

retroflexus, L.

Fields, gardens, &c. Common.

albus, L.

Roadsides and waste places. Common.

spinosus, L. C. & S.

Waste places, from Peoria county southward. Scarce.

MONTELIA

tamariscina, Gray.

River banks. Common.

IRESINE

celosioides, L. S.

Wabash county, Schneck.

FRŒLICHIA

Floridana, Moq. W.

Sandy barrens. Henderson county; Mason and Menard, Mead, Hall.

POLYGONACEÆ.

POLYGONUM

orientale, L.

Spontaneous about gardens.

Pennsylvanicum, L.

Damp places. Common.

incarnatum, Ell.

Low grounds. Common.

Hartwrightii, Gray. N.

Winnebago county, Bebb.

Persicaria, L.

Roadsides, &c. Common.

Hydropiper, L.

Low grounds. Common.

acre, H. B. K.

Low grounds. Common.

hydropiperoides, Michx.

Margins of ponds, &c. Frequent.

amphibium, L.

In ponds and damp grounds. Common.

Virginianum, L.

Rich woods. Scarce.

articulatum, L. N.

Near Dixon, Vasey; Ogle county, Bebb.

aviculare, L.

Roadsides and waste places. Common.

var. erectum, Roth.

Common.

ramosissimum, Michx.

River banks and barrens. Frequent.

tenue, Michx.

Dry prairies and barrens. Frequent.

arifolium, L.

Low grounds. McHenry county, Vasey.

sagittatum, L.

Low grounds. Frequent.

Convolvulus, L.

Fields, and waste places. Common.

dumetorum, L.

Moist thickets. Common.

FAGOPYRUM

esculentum, Mœnch.

Persistent in fields.

RUMEX

Patientia, L.

Spontaneous about gardens at Augusta, Hancock county, Mead.

orbiculatus, Gray. C. & N.

Wet places. Menard county, Hall; and northward. Scarce.

Britannica, L.

Low grounds. Frequent.

conglomeratus, Murray.

Kankakee county, Hill.

verticillatus, L.

Wet places. Frequent.

crispus, L.

Gardens and waste places. Common.

obtusifolius, L.

With the last. Frequent.

maritimus, L. N.

McHenry county, Vasey.

Engelmanni, Ledeb. S-W.

Formerly in St. Clair county, station now destroyed by cultivation, Engelmann.

Acetosella, L.
Dry fields, roadsides, &c. Common.

BRUNNICHIA
cirrhosa, Banks. S.
Pulaski county, Brendel.

LAURACEÆ.

SASSAFRAS
officinale, Nees.
Rich woods. Frequent.

LINDERA
Benzoin, Meisner. C. & S.
Damp woods. Fulton county, Wolf; and southward.

THYMELEACEÆ.

DIRCA
palustris, L. N.
Damp woods. Peoria county, Brendel; and northward.

ELÆAGNACEÆ.

SHEPHERDIA
Canadensis, Nutt.
Near Chicago, Babcock.

SANTALACEÆ.

COMANDRA
umbellata, Nutt.
Dry prairies. Common.

LORANTHACEÆ.

PHORADENDRON
flavescens, Nutt. S.
Wabash and Jackson counties; and southward.

SAURURACEÆ.

SAURURUS
cernuus, L.
Swamps. Scarce.

CERATOPHYLLACEÆ.

CERATOPHYLLUM
demersum, L.
Ponds. Frequent.

CALLITRICHACEÆ.

CALLITRICHE
Austini, Engelm.
Damp grounds. Menard county, Hall; Washington, Vasey.

verna, L.
Ponds. Peoria and Fulton counties, Brendel, Wolf.

heterophylla, Pursh. C. & S.
Ponds. Menard county, Hall; Wabash, Schneck.

autumnalis, L.
Hancock county, Mead; Fulton, Wolf.

EUPHORBIACEÆ.

EUPHORBIA
polygonifolia, L. N-E.
Common on sands of lake shore about Chicago, Babcock.

Geyeri, Engelm. C. & N.
Sandy prairies and barrens of Menard, Mason and Cass counties; Henderson; Lee, Vasey.

serpens, H. B. K. S-W.
In rich soil. Menard county, Hall; St. Clair, Engelmann. Common along R., R. I. & St. L. Railroad at Monmouth, Warren county, probably adventive from the south.

glyptosperma, Engelm.
St. Clair county, Engelmann; Menard, Hall; Winnebago, Bebb. Rare.

maculata, L.
Dry or moist open places. Common.

humistrata, Engelm. W.
Alluvial river banks. Henderson county: Fulton, Wolf: Menard, Hall; and southward.

hypericifolia, L.
Fields, dry open woods, &c. Common.

corollata, L.
Dry open woods and prairies. Common.

dentata, Michx. C. & S.
Henderson county (common along C. B. & Q. Railroad east of Sagetown, perhaps introduced); Peoria, Brendel: Adams, Vasey; Menard, Hall; and probably southward. Scarce.

heterophylla, L.
Rocky hillsides, &c. Winnebago county, Bebb; Kankakee, Hill: Peoria, Brendel; Mason and Menard, Mead, Hall; and probably southward. Infrequent.

obtusata, Pursh.

Damp woods. Kankakee county, Hill; Peoria, Brendel; Hancock, Mead. Rare.

Helioscopia, L.

About gardens in Menard and Hancock counties, Hall, Mead.

Cyparissias, L.

Sparingly escaped from cultivation.

commutata, Engelm.

Near Chicago, Babcock; banks of Rock river in Winnebago and Ogle counties, Bebb, and at Dixon, Vasey.

ACALYPHA

Virginica, L.

Open woods, fields, &c. Common.

var. gracilens, Gray.

In drier places.

Caroliniana, Walt. S.

Near Jonesboro, Union county, Vasey; Wabash, Schneck.

TRAGIA

macrocarpa, Willd. S.

Banks of the Ohio at Golconda, Pope county, Forbes.

CROTON

glandulosus, L. C. & S.

Common in sandy barrens about Oquawka, Henderson county; Fulton, Wolf; and southward. Scarce.

capitatus, Michx. C. & S.

Barrens and roadsides. Menard county, Hall; and southward.

monanthogynus, Michx. S.

Barrens. Marion county, Vasey; St. Clair, Brendel; and southward.

CROTONOPSIS

linearis, Michx. C. & S.

Barrens. Menard county, Hall; and southward.

PHYLLANTHUS

Carolinensis, Walt. C. & S.

From Fulton and Mason counties southward.

URTICACEÆ.

ULMUS

fulva, Michx.

River banks. Common.

Americana, L.

With the last. Common.

racemosa, Thomas. N.

Near Elgin, Kane county, Vasey.

alata, Michx. S.

Wabash and Jackson counties; and southward.

CELTIS

occidentalis, L.

Banks of streams. Common.

Mississippiensis, Bosc. S.

River banks. Wabash and Jackson counties; and southward.

MORUS

rubra, L.

Rich soil along streams. Common.

URTICA

gracilis, Ait.

Moist grounds. Scarce.

dioica, L.

Waste places. Hancock county, Mead; Fulton, Wolf; Wabash, Schneck. Scarce.

LAPORTEA

Canadensis, Gaud.

Damp rich woods. Frequent.

PILEA

pumila, Gray.

Damp woods and banks. Common.

BŒHMERIA

cylindrica, Willd.

Damp woods. Frequent.

PARIETARIA

Pennsylvanica, Muhl.

Shaded rocks, hedges, &c. Common.

CANNABIS

sativa, L.

Waste places. Common.

HUMULUS

Lupulus, L.

Banks of streams. Frequent.

PLATANACEÆ.

PLATANUS

occidentalis, L. C. & S.

River banks. Henderson, Peoria and Kankakee counties, and southward. Common.

JUGLANDACEÆ.

JUGLANS

cinerea, L.

Banks of streams. Common.

nigra, L.

With the last. Common.

CARYA

olivæformis, Nutt. C. & S.

River banks. Common in Mississippi bottoms at Oquawka, Henderson county (and probably further north); Peoria, Brendel; and southward.

alba, Nutt.

Dry hillsides, &c. Common.

sulcata, Nutt.

River bottoms from Henderson and Peoria counties southward: and probably northward to Wisconsin along the Mississippi. The nut varies greatly in size and in the texture of the shell, which is sometimes thin and white as in the last.

tomentosa, Nutt.

Dry hillsides and barrens. Common.

porcina, Nutt.

Woods. Common.

amara, Nutt.

Woods along streams. Common.

CUPULIFERÆ.

QUERCUS

alba, L.

Rich woods. Common.

obtusiloba, Michx.

Barrens. Scarce northward.

macrocarpa, Michx.

In rich soil. Common.

[Fertile hybrids of ALBA and MACROCARPA occur in Menard county, Hall; Winnebago, Bebb.]

lyrata, Walt. S.

Near Jonesboro, Union county, Vasey, Wolf; Wabash, Schneck.

bicolor, Willd.

Banks of streams. Frequent.

Prinus, L.

Elgin, Kane county, Vasey; and frequent southward.

var. monticola, Michx.

Menard county, Hall.

var. acuminata, Michx.

Rich woods. Frequent.

imbricaria, Michx.

Near Joliet, Munroe; and southward.

nigra, L.

Sandy barrens. Near Chicago, Babcock; Henderson county; and southward. Common.

LEANA, Nutt.—This hybrid occurs in Peoria county, Brendel; Fulton, Wolf; and formerly in Hancock, Mead; also in Southern Ills., Forbes. Prof. Wolf has seen an IMBRICARIA tree with the leaves of LEANA on the lower branches.

falcata, Michx. S.

Jackson and Union counties, French, Vasey.

coccinea, Wang.

Rich, or dry and sandy soil. Common.

var. tinctoria, Gray.

With the last. Common.

rubra, L.

Mostly in rich soil along streams. Common.

palustris, Du Roi.

River banks. Scarce northward.

FAGUS

ferruginea, Ait. S.

Wabash and Jackson counties; and southward.

CORYLUS

Americana, Walt.

Hillsides and ravines. Common.

OSTRYA

Virginica, Willd.

Rich woods. Common.

CARPINUS

Americana, Michx.

Banks of streams. Frequent.

MYRICACEÆ.

COMPTONIA

asplenifolia, Ait. N.

Kankakee county, Hill, about Chicago, Munroe, Vasey, Babcock.

BETULACEÆ.

BETULA

lenta, L.

Near Dixon, Vasey; Wabash county, Schneck.

papyracea, Ait. N.

Lake shore about Chicago, (rare), Babcock; and Evanston, Vasey.

nigra, L. C. & S.

River banks. Kankakee and Henderson counties and southward. Common.

pumila, L. N.

Wet places. Near Chicago, Munroe; McHenry county, Vasey.

ALNUS

serrulata, Ait.

Bureau, McLean, Macon and Madison counties, Miss Holmes; White, Schneck; Union, French.

SALICACEÆ.

SALIX (By M. S. Bebb.)

candida, Willd. N.

In cold bogs, Peoria county, Brendel: McHenry, Vasey; Cook, Babcock; Winnebago! Rare.

tristis, Ait.

Sterile knolls and warm sandy prairies. Widely distributed but Infrequent.

humilis, Marshall.

Prairies and barrens. Everywhere our most common Willow.

Mr. Walsh has described (Proc. Ent. Soc'y Phila.) the "astonishing number of ten distinct galls" produced by this species: the number borne by other common Willows varying from one to (usually) three or four.

discolor, Muhl.

Banks of streams, throughout. Common.

Probably including several species confused by cross fertilization.

sericea, Marshall.

Peoria county, Brendel. Rare.

This species was published in 1785. S. PETIOLARIS was founded upon a cultivated plant, supposed to be of British origin, and published by Sir J. E. Smith (Linn. Trans. Vol. 6) in 1802, though the paper was received in 1801: therefore, should the two be united as has been done by Andersson, S. SERICEA should take precedence as the type of the aggregated species.

petiolaris, Smith.

Wabash county, Schneck: reported by others only at the north, where it is frequent.

var. gracilis, Anders.

Both forms, SERICOCARPA and LEIOCARPA, at Fountaindale, Winnebago county.

From S. SERICEA, Marsh. through this species and S. ANGUSTATA, Pursh to S. CORDATA, Muhl. an unbroken series of transitional forms occur—the result of cross fertilization—making the limitation of species very difficult, if not purely arbitrary. The hybrid SERICEA X CORDATA presents, very nearly, the technical characters of S. PETIOLARIS, Smith.

adenophylla, Hook. N-E.

Lake shore near Chicago, Babcock, Vasey.

Retains under cultivation its remarkably distinct character: the tomentose, glandular-serrate leaves, very unlike those of any other Willow occurring in the States east of the Mississippi.

cordata, Muhl.

Low, wet prairies and along streams. Common.

(?) var. glaucophylla, Bebb.

On the lake shore, associated with S. ADENOPHYLLA—Babcock; Fountaindale, (only three plants.)

In the Willow garden at Fountaindale, where several forms of this fine Willow sent by Mr. Babcock are under cultivation, it has every appearance of being specifically distinct from S. CORDATA.

rostrata, Richardson. N.

Henderson county, Patterson; otherwise only reported from the northern counties, where it is not uncommon.

lucida, Muhl.

Along streams, usually growing at the water's edge. Common at the north.

nigra, Marsh.

Common along water courses, especially southward.

amygdaloides, Anders.

(S. NIGRA, var., Anders. in DC.)

Peoria county, Brendel; Henderson, Patterson; Cook, Babcock; Winnebago!

There is a similarity between the characters which distinguish this from the typical form of S. NIGRA and those which separate S. PETIOLARIS from S. SERICEA. If S. PETIOLARIS is admitted as a valid species, S. AMYGDALOIDES claims equal distinction.

longifolia, Muhl.

Wet places, throughout. Common.

var. argyrophylla, Anders.

Winnebago county!

myrtilloides, L. N.

Cold peat bogs. Peoria county, Brendel; McHenry, Vasey. Rare.

Widely distributed in sub-arctic regions, extending southward along the Pacific coast to Oregon, and on the Atlantic side to New Jersey. Its occurrence so far south in the Mississippi valley as found by Dr. Brendel, taken in connection with the equally unexpected finding of S. CANDIDA, indicates an exceptionally cold spot for the latitude.

POPULUS

tremuloides, Michx.

Woods. Common.

grandidentata, Michx. C. & N.

From Menard county northward. Frequent.

heterophylla, L. S.

River banks. Wabash and Jackson counties, and southward.

monilifera, Ait.

River banks. Common.

angulata, Ait.

Hancock county, Mead.

CONIFERÆ.

PINUS

Banksiana, Lambert. N.

Abundant at Pine Station, near Chicago, Babcock ; Ogle county, Bebb.

mitis, Michx. S.

Jackson and Union counties, Forbes.

Strobus, L. N.

Cook county, Vasey ; Winnebago, Bebb.

LARIX

Americana, Michx. N.

McHenry county, Vasey.

THUJA

occidentalis, L. N.

Swamps. One very old tree noticed near Peoria, many years ago, Brendel ; Chicago, Babcock, and Elgin, Kane county, Vasey.

CUPRESSUS

thyoides, L. S.

Gallatin county, Schneck.

TAXODIUM

distichum, Richard. S.

Swamps. Wabash county, Schneck ; Union, Vasey, Brendel.

JUNIPERUS

communis, L.

Near Chicago, Babcock ; Kankakee county, Hill ; Wabash, Schneck. Scarce.

Virginiana, L.

Rocky hillsides, &c. Frequent.

Sabina, L.,
var. procumbens, Pursh. N-E.

Near Chicago, Babcock.

TAXUS

baccata, L.,
var. Canadensis, Gray. N.

Winnebago county, Bebb.

ARACEÆ.

ARISÆMA

triphyllum, Torr.

Rich woods. Common.

Dracontium, Schott.

Woods along streams. Common.

PELTANDRA

Virginica, Raf.

Ponds. Kankakee county, Hill ; Peoria, Brendel ; Cass, Mead ; and in S. Illinois, Forbes. Scarce.

SYMPLOCARPUS

fœtidus, Salisb.

Wet places, especially near cold springs. Infrequent.

ACORUS

Calamus, L.

Margins of ponds, &c. Frequent.

LEMNACEÆ.

LEMNA

trisulca, L.

Ponds. Infrequent.

minor, L.

Ponds. Frequent.

polyrrhiza, L.

Ponds. Common.

WOLFFIA

Columbiana, Karsten.

Ponds. Menard county, Hall ; Fulton, Wolf ; St. Clair, Engelmann.

Braziliensis, Weddell.

Menard county, Hall.

TYPHACEÆ.

TYPHA

latifolia, L.

Margins of ponds. Common.

SPARGANIUM

eurycarpum, Engelm.

Wet places. Common.

simplex, Hudson. N.

McHenry county, Vasey.

var. androcladum, Gray. S.
Wabash county, Schneck.

var. angustifolium, Gray. N.
McHenry county, Vasey.

NAIADACEÆ.

NAIAS

flexilis, Rostk.
Ponds. Frequent.

Indica, var. gracillima, Braun.
Ponds. Wabash county, Schneck.

ZANNICHELLIA

palustris, L.
Ponds. Peoria, Menard, Fulton and Henderson counties, and probably elsewhere, but Scarce.

POTAMOGETON

natans, L.
Ponds. Frequent.

Claytonii, Tuckerman.
Fulton county, Wolf.

Vaseyi, Robbins. N.
Near Ringwood, McHenry county, Vasey.

Spirillus, Tuckerman.
McHenry county, Vasey.

hybridus, Michx.
Ponds. Infrequent.

rufescens, Schrader. N.
McHenry county, Vasey.

lonchites, Tuckerman. N.
Chicago, Babcock; McHenry county, Vasey.

pulcher, Tuckerman.
Mason county, Hall.

gramineus, L.
Near Chicago, Babcock; McHenry county, Vasey; Hancock, Mead.

lucens, L.
McHenry county, Vasey: Kankakee, Hill; Wabash, Schneck.

perfoliatus, L.
McHenry county, Vasey; Kankakee, Hill.

compressus, L.
McHenry county, Vasey; Kankakee, Hill: Menard, Hall.

pauciflorus, Pursh.
Peoria county, Brendel; Kankakee, Hill; McHenry, Vasey.

pusillus, L.
Peoria and Fulton counties, Brendel, Wolf; Menard, Hall.

pectinatus, L.
Ponds. Frequent.

ALISMACEÆ.

TRIGLOCHIN

palustre, L. N.
Peoria county, Brendel; Kane and McHenry, Vasey.

maritimum, L. N-E.
Chicago, Babcock; McHenry county, Vasey.

SCHEUCHZERIA

palustris, L. C. & N.
Menard county, Hall; McHenry, Vasey.

ALISMA

Plantago, L., var. Americanum, Gr.
Margins of ponds, &c. Common.

ECHINODORUS

parvulus, Engelm.
Mason and Cass counties, Mead.

rostratus, Engelm. C. & S.
About ponds, &c. Peoria county, Brendel; and southward.

radicans, Engelm.
Menard county, Hall; and southward.

SAGITTARIA

variabilis, Engelm.
Ponds and ditches. Common.

calycina, Engelm.
Margins of ponds in Mississippi bottoms about Oquawka, Henderson county; Menard county, Hall. Rare.

heterophylla, Pursh.
Ponds, often in water two or three feet deep. Frequent.

graminea, Michx.
Margins of ponds. Scarce.

HYDROCHARIDACEÆ.

LIMNOBIUM

Spongia, Richard. S.
Ponds. Union county, Vasey, Brendel.

ANACHARIS

Canadensis, Planchon.
Ponds and slow streams. Common.

VALLISNERIA

spiralis, L.

Slow streams. Infrequent.

ORCHIDACEÆ.

ORCHIS

spectabilis, L.

Rich woods throughout, but Scarce.

HABENARIA

virescens, Spreng.

Near Chicago, Babcock; Peoria county, Brendel.

viridis, R. Br.,
var. bracteata, Reich. N.

Near Chicago, Babcock; Kankakee county, Hill; Winnebago and McHenry, Bebb, Vasey.

Hookeri, Torr.

Glencoe, Cook county, Babcock.

ciliaris, R. Br.

Kankakee county, Hill; near Jonesboro, Union county, Miss Holmes.

leucophæa, Gray.

Moist prairies. Scarce.

lacera, R. Br.

Calumet, Cook county, Babcock.

psycodes, Gray.

Winnebago county, Miss Holmes.

peramœna, Gray. S.

Marion county, Bebb; and southward.

GOODYERA

repens, R. Br.

Woods. Union county, French.

pubescens, R. Br.

Woods. McHenry county, Vasey.

SPIRANTHES

latifolia, Torr.

Menard county, Hall.

cernua, Richard.

Prairies. Scarce.

gracilis, Bigelow.

Prairie hillsides. Scarce.

POGONIA

ophioglossoides, Nutt.

McHenry county, Vasey; Kankakee, Hill.

pendula, Lindley.

Damp woods. Peoria county, Brendel; Menard, Hall: in the highlands of Union county, very common in certain localities, occurring in patches about old logs, &c., Forbes; Wabash, Schneck.

CALOPOGON

pulchellus, R. Br.

Prairies. Infrequent.

MICROSTYLIS

monophyllos, Lindl. C. & N.

Swamps. Menard county, Brendel; Elgin, Kane county, Vasey. Rare.

ophioglossoides, Nutt.

Rich woods, in Henderson, Hancock and Menard counties. Rare.

LIPARIS

liliifolia, Richard.

Rich woods. Scarce.

Lœselii, Richard.

Bogs. Peoria county, Brendel; Menard, Hall. Rare.

CORALLORHIZA

odontorhiza, Nutt. C. & S.

Woods. Henderson county; Menard, Hall; Wabash, Schneck; Union, Forbes. Rare.

multiflora, Nutt.

Dry woods. St. Clair county, Brendel.

APLECTRUM

hyemale, Nutt.

Rich woods. Winnebago county, Miss Holmes; Peoria, Brendel; Hancock, Mead; Menard, Hall: common near Makanda, Jackson county, Forbes; Wabash, Schneck. Scarce.

CYPRIPEDIUM

candidum, Muhl.

Dry or moist prairies. Becoming scarce.

parviflorum, Salisb.

Damp prairies and woods. Scarce.

pubescens, Willd.

Rich woods. Frequent.

spectabile, Swartz.

Bogs and damp woods. Scarce.

AMARYLLIDACEÆ.

PANCRATIUM

rotatum, Ker. S.

Swamps. Wabash county, Schneck: Jackson and Union, Vasey, Forbes.

AGAVE

Virginica, L. S.

Rocky hillsides, &c. St. Clair county, Brendel; Wabash, Schneck; and southward.

HYPOXYS

erecta, L.

Open grassy places. Common.

HÆMODORACEÆ.

ALETRIS

farinosa, L. E.

Woods. Common at Hyde Park, near Chicago, Babcock; Kankakee county, Hill; Wabash, Schneck.

IRIDACEÆ.

IRIS

versicolor, L.

Low grounds. Common.

cuprea, Pursh.

Mound City, Pulaski county, Vasey.

PARDANTHUS

Chinensis, Ker.

Thoroughly naturalized at Grand Tower, Jackson county, Vasey; and sparingly escaped from cultivation in other localities.

SISYRINCHIUM

Bermudiana, L.

Moist prairies, &c. Common.

DIOSCOREACEÆ.

DIOSCOREA

villosa, L.

Rich woods. Frequent.

SMILACEÆ.

SMILAX

rotundifolia, L.

Rich woods. Infrequent.

var. quadrangularis, Gray. S.

From St. Clair and Wabash counties southward.

glauca, Walt. C. & S.

Woods. Springfield, Vasey: and southward.

tamnoides, L. S.

Thickets. Jackson county, French; and southward.

hispida, Muhl.

Rich woods. Frequent.

herbacea, L.

Woods and open places along streams.

LILIACEÆ.

TRILLIUM

sessile, L.

Moist woods. Kankakee county, Hill; Wabash, Schneck. Rare.

recurvatum, Beck.

Rich woods. Common.

grandiflorum, Salisb.

Abundant in ravines at Glencoe, Cook county, Babcock; Wabash, Schneck. Rare.

erectum, L., var. album, Pursh.

Rich woods. Scarce.

var. declinatum, Gray.

Rich woods, northward.

cernuum, L. N?

Moist woods. McHenry county, Vasey; Kankakee, Hill.

nivale, Riddell. N.

Rich woods. Fulton and Peoria counties, Wolf, Brendel; near Dixon, Vasey. Rare.

MEDEOLA

Virginica, L.

Near Chicago, Babcock.

MELANTHIUM

Virginicum, L.

Damp prairies. Infrequent.

ZYGADENUS

glaucus, Nutt. N.

Elgin, Kane county, Vasey.

STENANTHIUM

angustifolium, Gray. C. & S.

Pleasant Vale, Pike county, Mead; Jonesboro, Union county, Miss Holmes.

VERATRUM

Woodii, Robbins.

On dry wooded hillsides, near limestone ridges, along Warsaw road, between West Point and Bear Creek, Hancock county, Mead. July.

CHAMÆLIRIUM

luteum, Gray.

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TOFIELDIA

glutinosa, Willd. N.

Near Chicago, Babcock; McHenry co., Vasey.

UVULARIA

grandiflora, Smith.

Rich woods. Frequent.

perfoliata, L.

Rich woods. Scarce.

SMILACINA

racemosa, Desf.

Rich woods. Frequent.

stellata, Desf.

Moist banks. Frequent.

trifolia, Desf.

Near Chicago, Babcock; Hancock county, Mead.

bifolia, Ker. N.

Moist woods. Kankakee, Hill; and northern counties.

POLYGONATUM

biflorum, Ell.

Open woods. Common.

giganteum, Dietrich.

Woods. Common.

LILIUM

Philadelphicum, L.

Prairies. Common.

Canadense, L.

Moist prairies. Infrequent.

superbum, L.

Moist prairies. Infrequent.

ERYTHRONIUM

Americanum, Smith. N.

Near Chicago, Babcock; McHenry co., Vasey.

albidum, Nutt.

Moist rich woods. Common.

SCILLA

Fraseri, Gray.

Low prairies. Common.

ALLIUM

tricoccum, Ait.

Rich woods. Frequent.

cernuum, Roth. N.

Common on prairies about Chicago, Babcock: Kankakee county, Hill; La Salle, Forbes; McHenry, Vasey.

stellatum, Nutt. W.

On rocky edges of the bluffs on both sides of the Mississippi below St. Louis; on sandstone precipices above Prairie du Rocher; Engelmann.

Canadense, Kalm.

Damp prairies and woods. Common.

striatum, Jacq. C. & S.

Prairies and open woods. Fulton county, Vasey; and southward. Frequent.

JUNCACEÆ.

LUZULA

campestris, DC.

Dry woods, &c. Frequent northward.

JUNCUS

effusus, L.

Low grounds. Scarce.

Balticus, Dethard. N-E.

Common on lake shore about Chicago, Babcock.

marginatus, Rostk.

Kankakee county, Hill; Hancock, Mead; and southward.

bufonius, L.

Damp places by roadsides. Henderson county; McHenry, Vasey. Rare.

Gerardi, Loisel. N-E.

Chicago, Vasey.

tenuis, Willd.

Common in wet meadows, &c. Var. SECUNDUS in Hancock county, Mead.

Greenii, Oakes & Tuck. N-E.

River banks near Kankakee, Hill.

Vaseyi, Engelm. N.

Near Ringwood, McHenry county, Vasey.

alpinus, var. insignis, Fries. N.

Near Ringwood, McHenry county, Vasey.

acuminatus, Michx.:
var. legitimus, Engelm.

Low grounds, throughout.

var. robustus, Engelm. C. & S.

From Hancock county (Mead) southward.

var. debilis, Engelm. S.

Southern Illinois, Vasey.

nodosus, L. N.

Swamps. Kankakee county, Hill: and northward.

var. megacephalus, Torr. C. & N.
Menard county, Hall : and northward.

brachycarpus, Engelm.
Moist woods and prairies. Scarce.

Canadensis, J. Gay. :
var. longicaudatus, Eng. N.
Kankakee county, Hill ; McHenry, Vasey.

var. brachycephalus, Eng. N.
Peoria county, Brendel, and probably northward.

var. coarctatus, Engelm. N.
Kankakee county, Hill.

PONTEDERIACEÆ.

PONTEDERIA
cordata, L.
Ponds. Infrequent.

HETERANTHERA
reniformis, Ruiz & Pav. S.
Wabash county, Schneck.

limosa, Vahl.
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SCHOLLERA
graminea, Willd.
In ponds and slow streams. Frequent.

COMMELYNACEÆ.

COMMELYNA
erecta, L. S.
Wabash county, Schneck.

Virginica, L. C. & S.
Henderson county, (in sandy barrens) ; Mason, Mead ; and southward.

Cayennensis, Richard. S.
Madison county, Hall ; and southward.

TRADESCANTIA
Virginica, L.
Open woods and prairies. Common.

pilosa, Lehm. C. & S.
Hancock county, Mead ; and southward.

XYRIDACEÆ.

XYRIS
flexuosa, Muhl.
Calumet, Cook county, (rare), Babcock ; Kankakee, Hill ; Mason, Hall. Rare.

CYPERACEÆ.

CYPERUS
flavescens, L. S.
Low grounds. Jonesboro, Union county, Vasey.

diandrus, Torr.
Low grounds. Common.

erythrorhizos, Muhl.
River banks, throughout. Frequent.

inflexus, Muhl.
River banks, close to the water. Common.

acuminatus, Torr. C. & S.
Low grounds, from Henderson and Peoria counties southward. Rare.

phymatodes, Muhl.
Wet places. Frequent.

strigosus, L.
Low grounds. Common.

Michauxianus, Schultes.
Low grounds. Frequent.

Engelmanni, Steud.
Low grounds. McHenry county, Vasey ; banks of Cahokia creek, St. Clair county, Engelmann.

Schweinitzii, Torr. C. & N.
Sandy river banks, from Mason county northward. Frequent.

filiculmis, Vahl.
Barrens. Frequent.

ovularis, Torr. C. & S.
Barrens. Peoria county, Brendel ; and southward.

KYLLINGIA
pumila, Michx. C. & S.
Low grounds. Menard county, Hall ; and southward.

DULICHIUM
spathaceum, Pers.
Borders of ponds. Frequent.

FUIRENA
squarrosa, Michx. S.
Jonesboro, Union county, Vasey.

HEMICARPHA
subsquarrosa, Nees.
Sandy river banks, close to the water.

ELEOCHARIS
quadrangulata, R. Br. S.
St. Clair county, Brendel.

obtusa, Schultes.

Wet places. Common.

Engelmanni, Steud.

Differs from the last in its cylindrical spikes, shorter bristles and always 2-cleft style. Mississippi bottoms opposite St. Louis, Engelmann.

var. detonsa, Gray.

Bristles wanting, or only their bases present. Spikes sometimes proliferous at base. Mississippi bottoms 1 mile south of Oquawka.

palustris, R. Br.

Wet places. Common.

Wolfii, Gray.

"Perennial, with very slender creeping rhizomes in small, scattered tufts ; culm a foot high, slender, pale-glaucous, two-edged, flat on one side, convex on the other, faintly striate on both, sheath with obliquely truncate hyaline opening ; spike ovate-oblong, acute ; scales oblong-ovate, obtuse, scarious, pale tinged with purple ; style 3-parted ; achenium obovate, somewhat shining, faintly costate with about 9 ribs, the spaces between the ribs transversely marked with dotted lines, tubercle small, depressed-truncate and with the center more or less beaked ; bristles of the perigynium (always?) none."

Margins of ponds. Peoria county, Brendel ; Fulton, Wolf ; Menard, Hall.

compressa, Sullivant. C. & N.

Wet places, from Menard county northward.

intermedia, Schultes. C. & N.

With the last.

tenuis, Schultes.

Wet places. Common.

acicularis, R. Br.

Margins of ponds. Common.

SCIRPUS

pauciflorus, Lightfoot. N.

Wet places. McHenry county, Vasey.

cæspitosus, L. N.

McHenry county, Vasey.

pungens, Vahl.

Wet places. Frequent.

validus, Vahl.

Ponds. Common.

debilis, Pursh.

Hancock county, Mead ; Menard, Hall.

supinus, L., var. Hallii, Gray.

Mason county, Hall.

fluviatilis, Gray. C. & N.

Margins of ponds and streams, from Menard county northward.

atrovirens, Muhl.

Wet prairies. Frequent.

polyphyllus, Vahl. S.

Wet places. St. Clair county, Brendel ; S. Ill., Vasey.

lineatus, Michx.

Low grounds. Common, except at the north.

Eriophorum, Michx.

Wet places. Frequent.

ERIOPHORUM

Virginicum, L.

Near Chicago, Babcock.

polystachyon, L. N.

Bogs. Common near Chicago, Babcock ; Winnebago county, Bebb ; McHenry, Vasey.

gracile, Koch. N.

Bogs. Peoria co., Brendel ; McHenry, Vasey.

FIMBRISTYLIS

spadicea, Vahl., var. castanea, Gray.

Sandy low grounds. Near Chicago, Babcock ; Kankakee county, Hill ; Henderson ; St. Clair, Brendel. Rare.

laxa, Vahl.

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autumnalis, Rœm. & Schult.

Margins of streams and ponds, with CYPERUS INFLEXUS and ERAGROSTIS REPTANS.

capillaris, Gray.

Sandy barrens. Scarce.

RHYNCHOSPORA

cymosa, Nutt.

Kankakee county, Hill.

alba, Vahl. N.

Bogs. Peoria co., Brendel ; McHenry, Vasey.

capillacea, Torr.

Elgin, Kane county, Vasey ; St. Clair, Brendel.

glomerata, Vahl.

Near Chicago, Babcock ; Kankakee co., Hill.

corniculata, Gray. S.

Mound City, Pulaski county, Vasey.

SCLERIA

triglomerata, Michx.

Prairies. Frequent.

CLADIUM

mariscoides, Torr. N.

Bogs. Cook county, Scammon in Herb. Bebb; McHenry, Vasey.

CAREX

polytrichoides, Muhl.

Low grounds. Scarce.

Steudelii, Kunth.

Near Chicago, and Elgin, Kane county, Vasey: and frequent southward.

siccata, Dew. C. & N.

Barrens. Menard county, Hall; and northward.

disticha, Huds. C. & N.

Menard county, Hall; and northward.

teretiuscula, Good. C. & N.

Wet prairies, from Fulton county northward.

var. major, Koch. N.

With the last in Winnebago county, Bebb.

decomposita, Muhl.

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vulpinoidea, Michx.

Low grounds. Common.

crus-corvi, Shuttleworth.

Wet places bordering woods and thickets. Frequent.

stipata, Muhl.

Low grounds. Common.

conjuncta, Boott.

Low grounds. Scarce.

sparganioides, Muhl.

Low grounds. Frequent.

cephaloidea, (Dew.) Boott. C. & N.

Open grassy places. Fulton county, Wolf; and northward. Not so averse to animal manures as most Carices, and hence spreading in top-dressed meadows.—Bebb. Scarce.

cephalophora, Muhl.

Woods and fields. Frequent.

Muhlenbergii, Schk.

Barrens. Scarce.

rosea, Schk.

Moist woods and meadows. Frequent.

retroflexa, Muhl. S.?

Moist woods and meadows, southward. (Washington county, Vasey; Jackson, French.)

chordorhiza, Ehrh. N.

Cold bogs. McHenry county, Vasey.

sterilis, Willd. N.

Wet places. Peoria county, Brendel; Kankakee, Hill.

stellulata, L. C. & N.

Wet places. Menard co., Hall; and northward.

var. scirpoides, Gray. C. & N.

With the typical form.

arida, Schw. & Torr.

Damp woods and meadows. Frequent.

scoparia, Schk.

Wet meadows. Common.

Bebbii, Olney. N.

Moist prairies. Winnebago county, Bebb—(and along the great lakes and westward.)

lagopodioides, Schk.

Moist meadows and shady places. Common.

cristata, Schw.

Low grounds. Frequent.

var. mirabilis, Boott.

With the typical form. Frequent.

fœnea, Willd., var.? ferruginea, Bt.

Menard county, Hall; Wabash, Schneck.

straminea, Schk.

Damp prairies and borders of woods. Common.

Vars. TYPICA, TENERA and FESTUCACEA are common; var. CRAWEI in Winnebago county, Bebb; var. MEADII in Hancock county, Mead.

aquatilis, Wahl. N.

McHenry county, Vasey.

aperta, Boott.

Low prairies, &c. Frequent.

stricta, Lam.

Low grounds. Common.

crinita, Lam.

Low grounds. McHenry county, Vasey; Hancock, Mead; Jackson, French. Scarce.

limosa, L. N.

Bogs. Peoria county, Brendel.

Buxbaumii, Wahl.

Bogs. Not rare northward.

Shortiana, Dew. C. & S.

Swamps, from Peoria county southward.

aurea, Nutt. N.

Near Chicago, Babcock. Also the var. ANDROGYNA, Olney.

panicea, L., var. Meadii, Olney.
Moist prairies. Infrequent.

var. Bebbii, Olney. N.?
Winnebago county, Bebb; Chicago, Babcock.

tetanica, Schk.
Margins of lakes and streams. Frequent.

Crawei, Dew. N.
South-west of Hyde Park, Cook county, (rare), Babcock.

granularis, Muhl.
Low grounds. Common.

conoidea, Schk.
Moist prairies. Scarce.

grisea, Wahl.
Moist woods. Common.

Davisii, Schw. & Torr.
Moist meadows and damp woods. Frequent.

virescens, Muhl. C. & S.
Woods, from Hancock county southward.

triceps, Michx. C. & S.
Woods and meadows, from Peoria county (Brendel) southward.

plantaginea, Lam.
Rich woods. Washington county, French.

Careyana, Torr. S.
Rich woods. Marion county, Bebb; Jackson and Union, Vasey, Brendel.

platyphylla, Carey.
Rich woods. McHenry county, Vasey.

retrocurva, Dew.
Elgin, Kane county, Vasey.

digitalis, Willd.
Peoria county, Brendel; southern Ills., Vasey.

laxiflora, Lam.
Open rich woods. Common.

oligocarpa, Schk. C. & S.
Woods. From Kankakee and Peoria counties southward.

Hitchcockiana, Dew. C. & S.
Woods. Peoria county, and southward.

pedunculata, Muhl. N.
Elgin, Kane county, Vasey.

umbellata, Schk.
Rocky hillsides. Menard county, Hall; and northward. Scarce.

Emmonsii, Dew.
Dry woody hillsides. Menard county, Hall, and southward, Vasey, French. Rare.

Pennsylvanica, Lam.
Dry hillsides and barrens. Common.

varia, Muhl.
With the last. Frequent.

Richardsonii, R. Br. C. & N.
Prairies. Menard county, Hall; Peoria and Fulton, Brendel, Wolf; Winnebago, Bebb. Rare.

pubescens, Muhl.
Rich woods. Frequent.

debilis, Michx. S.
Southern Illinois, Vasey.

Œderi, Ehrh. N.
Chicago, Babcock; McHenry county, Vasey.

filiformis, L. N.
Bogs. Peoria county, Brendel; and northward. (Winnebago and McHenry, Bebb, Vasey.)

lanuginosa, Michx.
Low grounds. Common.

riparia, Curtis.
Wet places. Infrequent.

trichocarpa, Muhl. C. & N.
Low grounds. Menard county, Hall; and northward.

var. imberbis, Gray. C. & N.
With the typical form.

comosa, Boott.
Wet places. Frequent.

hystricina, Willd.
Wet meadows. Common.

tentaculata, Muhl.
Moist prairies. Frequent.

intumescens, Rudge.
Wet places. Infrequent.

Grayii, Carey.
Damp, open woods along streams. Frequent.
In the Oquawka plant the fruit is "smooth and shining," but other Illinois specimens have a rough-beaked fruit. It is, however, easily distinguished from the last species by the "globose, densely flowered spikes, the perigynia spreading and reflexed."

lupulina, Muhl.
Common along streams and about ponds.

lupuliformis, Sartwell.

With the last. Peoria county, Brendel: Winnebago, Bebb; Chicago, Babcock.

squarrosa, L. C. &. S.

Low grounds, from Henderson and Peoria counties southward. Common.

stenolepis, Torr. C. & S.

Wet places, from Menard county southward.

retrorsa, Schw.

McHenry and Winnebago counties, Vasey, Bebb; also in Wabash, Schneck. Probably rare, except at the north.

gigantea, Rudge. S.

Wabash county, Schneck.

utriculata, Boott.

Swamps. Frequent.

monile, Tuckerman.

Swamps. Infrequent.

Tuckermani, Boott. N.

Wet places, from Hancock county northward.

bullata, Schk.

Hancock county, Mead.

longirostris, Torr. N.

Rich woods, from Hancock county (Mead) northward. Scarce.

GRAMINEÆ.

LEERSIA

Virginica, Willd.

Damp woods. Common.

oryzoides, Swartz.

Margins of streams and ponds. Common.

lenticularis, Michx. C. & S.

River banks, from Peoria and Henderson counties southward.

ZIZANIA

aquatica, L.

Margins of ponds and sloughs. Common.

ALOPECURUS

pratensis, L.

Peoria county, Brendel.

geniculatus, L.

Wet meadows. Common near Oquawka, Henderson county; Marion, Bebb.

PHLEUM

pratense, L.

Fields, and escaped to roadsides. Common.

VILFA

aspera, Beauv.

Dry hills and barrens. Common.

vaginæflora, Torr.

With the last. Common.

Virginica, Beauv.

Fulton county, Wolf. (Determined by Prof. A. Wood.)

SPOROBOLUS

heterolepis, Gray.

Dry prairies and barrens. Frequent.

cryptandrus, Gray. N.

Sandy river banks and barrens. Common along the Mississippi at Oquawka; near Chicago, Babcock. Root perennial.

AGROSTIS

perennans, Tuckerm.

Damp woods. Infrequent.

scabra, Willd.

Prairies and barrens. Common.

vulgaris, With.

Damp meadows. Common.

alba, L.

With the last. Scarce.

CINNA

arundinacea, L.

Damp woods. Common.

var. pendula, Gray. N.

Kankakee county, Hill; Elgin, Kane co., Vasey.

MUHLENBERGIA

sobolifera, Trin.

Open rocky woods. Infrequent.

glomerata, Trin. C. & N.

Bogs, from Menard county northward.

Mexicana, Trin.

Low grounds. Common.

sylvatica, T. & G.

Woods. Frequent.

Willdenovii, Trin.

Rocky woods. Common.

diffusa, Schreber.

Open woods. Frequent.

BRACHYELYTRUM

aristatum, Beauv.

Shaded rocky hillsides. Frequent.

CALAMAGROSTIS

Canadensis, Beauv.

Wet prairies and swamps. Common.

longifolia, Hook. C. & N.

Sandy barrens. Mason county, Hall; along the Mississippi above Oquawka; lake shore at Chicago, Babcock. Scarce.

arenaria, Roth. N-E.

Lake shore at Chicago, Babcock.

ORYZOPSIS

melanocarpa, Muhl.

Rocky woods. Peoria county, Brendel.

STIPA

spartea, Trin. C. & N.

Prairies and barrens, from Menard county northward. Common.

ARISTIDA

ramosissima, Engelm. S.

Dry prairies. St. Clair county, Brendel; Wabash, Schneck; Marion, (the var. UNIARISTATA) Vasey.

dichotoma, Michx. C. & S.

Barrens. Hancock county, Mead; Fulton, Wolf; and southward.

gracilis, Ell. C. & S.

Barrens, from Hancock county southward.

stricta, Michx.

Mason county, Mead.

oligantha, Michx. C. & S.

Barrens, from Henderson county southward.

purpurascens, Poir. C. & S.

Fulton county, Wolf; Menard, Hall; and southward.

tuberculosa, Nutt.

Sandy prairies and barrens. Near Chicago, Babcock; and from Henderson county southward.

SPARTINA

cynosuroides, Willd.

River bottoms. Common.

BOUTELOUA

oligostachya, Torr. N.

Sandy prairies. Dixon, Lee county, Vasey.

hirsuta, Lagasca. W.

Sandy prairies and barrens. From Lee county to Mason and Cass, and westward. Frequent.

curtipendula, Gray.

Prairies and barrens. Frequent.

var. aristosa, Gray.

With the typical form.

DACTYLOCTENIUM

Ægyptiacum, Willd.

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ELEUSINE

Indica, Gœrtn. C. & S.

Gardens, &c., from Henderson and Peoria counties southward.

LEPTOCHLOA

mucronata, Kunth. S.

Mound City, Pulaski county, Vasey.

fascicularis, Gray. C. & S.

Low grounds. Menard county, Hall; and southward.

TRICUSPIS

seslerioides, Torr. C. & S.

Barrens, from Henderson and Peoria counties southward.

purpurea, Gray.

Sandy prairies and barrens, with BOUTELOUA HIRSUTA and PANICUM AUTUMNALE, from Henderson to Fulton (Wolf) and Mason (Mead) counties.

DIARRHENA

Americana, Beauv. C. & S.

Rich woods, from Peoria county southward.

DACTYLIS

glomerata, L.

Fields and yards. Frequent.

KŒLERIA

cristata, Pers.

Prairies and barrens. Washington co., French, and common northward.

EATONIA

obtusata, Gray.

In dry soil. Frequent.

Pennsylvanica, Gray.

Moist woods and meadows. Frequent.

MELICA

mutica, Walt.

Prairies and borders of woods. Frequent.

GLYCERIA

Canadensis, Trin. N.

Bogs. Kane and McHenry counties, Vasey.

nervata, Trin.

Low grounds. Common.

fluitans, R. Br.
Margins of ponds. Common.

POA

annua, L.
Roadsides and waste places. Frequent.

compressa, L.
Roadsides, woods, &c., in dry soil. Frequent.

serotina, Ehrhart.
Low grounds. Frequent.

pratensis, L.
Common everywhere.

sylvestris, Gray.
Woods and meadows. Infrequent.

alsodes, Gray.
Woody hillsides. Hancock county, Mead.

ERAGROSTIS

reptans, Nees.
Margins of streams and ponds, close to the water.

poæoides, Beauv.
Sandy roadsides, river banks, &c.

var. megastachya, Gray.
With the last and more common.

pilosa, Beauv.
Sandy waste places, river banks, &c. Common.

Frankii, Meyer.
River banks, throughout. Frequent.

tenuis, Gray. C. & S.
Sandy barrens, from Henderson co. to Menard; Wabash, Schneck. Scarce.

capillaris, Nees.
Sandy barrens. Frequent.

pectinacea, Gray.
And var. SPECTABILIS, Gray. Common in sandy barrens.

FESTUCA

tenella, Willd.
Common in dry grounds.

elatior, L.
Meadows. Scarce.

nutans, Willd.
Open woods and prairies. Common.

BROMUS

secalinus, L.
Fields. Common.

racemosus, L.
Fields. Scarce.

Kalmii, Gray. C. & N.
Prairies, from Fulton county northward.

ciliatus, L.
Woody hillsides. Common.

UNIOLA

latifolia, Michx. S.
Rich woods on hillsides. Marion county, Bebb: and southward.

PHRAGMITES

communis, Trin.
River bottoms and swamps. Common.

ARUNDINARIA

macrosperma, Michx. S.
Jackson and Union counties, French.

tecta, Muhl. S.
River banks. Wabash county, Schneck; Union. Wolf; and southward.

LEPTURUS

paniculatus, Nutt. W.
Open grounds and salt licks in Hancock county. Mead.

TRITICUM

repens, L.
Reported only from the northern counties, where it is common.

caninum, L. N.
McHenry county, Vasey.

HORDEUM

jubatum, L.
Sandy prairies. Infrequent.

pratense, Huds. C. & S.
Prairies. From Peoria and Henderson counties southward.

ELYMUS

Virginicus, L.
River banks. Common.

Canadensis, L.
And var. GLAUCIFOLIUS, Gray. Common.

striatus, Willd.
Borders of woods. Infrequent.

GYMNOSTICHUM

Hystrix, Schreb.
Rich woods. Frequent.

DANTHONIA

spicata, Beauv.

Dry grounds. Infrequent.

TRISETUM

palustre, Torr.

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HOLCUS

lanatus, L.

Moist meadows. Adams county, Mead.

HIEROCHLOA

borealis, R. & S. N.

Wet prairies. Grundy county, Brendel; and northward.

PHALARIS

arundinacea, L.

Wet places. Frequent.

MILIUM

effusum, L. N.

Elgin, Kane county, Vasey.

PASPALUM

fluitans, Kunth. S.

Swamps. St. Clair county, Brendel; and southward.

Walterianum, Schultes. S.

St. Clair county, Brendel

setaceum, Michx. C. & S.

Sandy barrens. Kankakee county, Hill; and southward.

læve, Michx. S.

Damp grounds. Marion county, Bebb; and southward.

PANICUM

filiforme, L. C. & S.

Sandy barrens, from Henderson county southward.

glabrum, Gaudin.

Waste places. Common.

sanguinale, L.

Common in cultivated grounds.

anceps, Michx. C. & S.

Low grounds. Peoria county, Brendel; and southward.

agrostoides, Spreng. C. & S.

Wet places, from Hancock county southward.

proliferum, Lam. C. & S.

River banks, damp fields, &c., from Henderson county southward.

capillare, L.

Common in dry soil.

autumnale, Bosc.

Sandy prairies and barrens. Lee county, Vasey: Kankakee, Hill; rather common from Henderson and Peoria to Menard; and probably southward. Root perennial!

virgatum, L.

Low grounds. Common.

latifolium, L.

Rich woods. Frequent.

clandestinum, L.

Moist woods and open damp places. Frequent.

microcarpon, Muhl. S.

Woods. Marion county, Bebb; and southward.

pauciflorum, Ell. ?

Prairies. Common.

dichotomum, L.

Dry or damp prairies and woods. Common.

depauperatum, Muhl.

Dry prairies and barrens. Common.

Crus-galli, L.

And var. HISPIDUM. Damp grounds. Common.

SETARIA

verticillata, Beauv.

Cultivated grounds. Infrequent.

glauca, Beauv.

Common in gardens and fields.

viridis, Beauv.

Cultivated grounds. Frequent.

CENCHRUS

tribuloides, L.

Sandy river banks. Too common in many localities.

TRIPSACUM

dactyloides, L. C. & S.

Low grounds. Along Spoon River in Fulton county, Mead; and southward.

ERIANTHUS

alopecuroides, Ell. S.

Illinois—Gray's Manual.

ANDROPOGON

furcatus, Muhl.

Prairies and barrens. Common.

scoparius, Michx.

Dry prairies and barrens. Common.

Virginicus, L. S.

St. Clair county, Brendel; and southward.

SORGHUM

nutans, Gray.

Common in dry grounds.

EQUISETACEÆ.

EQUISETUM

arvense, L.

Damp places. Common.

palustre, L. N.

Wet places. Peoria county, Wolf, Brendel.

limosum, L.

In shallow water. Cass county, Mead; Peoria, Brendel: McHenry, Vasey. Scarce.

lævigatum, Braun. C. & S.

In dry or moist clay and sand, from Henderson and Peoria counties southward.

robustum, Braun. C. & S.

River banks, from Peoria county southward.

hyemale, L.

Wet banks. Frequent.

variegatum, Schleicher. N.

Peoria county, Brendel.

scirpoides, Michx. N.

Ringwood, McHenry county, Vasey.

FILICES.

POLYPODIUM

vulgare, L.

Sandstone cliffs of Ogle county, Bebb: common in Jackson and Union, French, Forbes.

incanum, Swartz. S.

On trees and rocks. Jackson county, French: Wabash, Schneck; and southward.

ADIANTUM

pedatum, L.

Rich woods. Common.

PTERIS

aquilina, L.

Copses. Common.

CHEILANTHES

vestita, Swartz. S.

Rocks. St. Clair county, Brendel; and southward.

lanuginosa, Nutt. W.

Clefts of rocks. Near Galena, Brendel; Pike county, Mead; Jackson, French.

PELLÆA

gracilis, Hook.

In rocky ravines near the Kankakee river (rare) in Kankakee county, Hill.

atropurpurea, Link.

On dry rocks. Infrequent.

ASPLENIUM

pinnatifidum, Nutt.

On rocks. Jackson and Union counties, French: Pope, Schneck.

Trichomanes, L. S?

On shaded rocks. Jackson and Union counties, French; Wabash, Schneck.

ebeneum, Ait.

Open rocky woods. Scarce.

angustifolium, Michx.

Rich woods. Scarce.

thelypteroides, Michx.

Rich woods. Peoria and Fulton counties, Brendel, Wolf; Wabash, Schneck. Rare.

Filix-fœmina, Bernh.

Rich woods. Frequent.

CAMPTOSORUS

rhizophyllus, Link.

Shaded rocks, throughout, but Scarce.

PHEGOPTERIS

polypodioides, Fee.

Damp woods. Menard county, Hall.

hexagonoptera, Fee.

Rich woods. Frequent.

ASPIDIUM

Thelypteris, Swartz.

Swamps. Frequent.

Noveboracense, Swartz.

Swamps. Elgin, Kane county, Vasey; Kankakee, Hill; Wabash, Schneck. Scarce.

spinulosum, Swartz,
var. intermedium, Eaton.

Woods. Infrequent.

Goldianum, Hook.

Rich woods. Peoria and Fulton counties, Brendel, Wolf; Makanda, Jackson county, Forbes.

marginale, Swartz.
Shaded rocky hillsides. Scarce.

acrostichoides, Swartz.
Moist, shady hillsides. Infrequent.

CYSTOPTERIS
bulbifera, Bernh.
Shaded rocks. Frequent.

fragilis, Bernh.
Rich woods on hillsides. Common.

STRUTHIOPTERIS
Germanica, Willd.
Damp woods. Infrequent.

ONOCLEA
sensibilis, L.
Wet places. Common.

WOODSIA
obtusa, Torr. S.?
Rocks. Marion co., Bebb: Wabash, Schneck; and southward.

Ilvensis, R. Br. N.
Occurs sparingly on sandstone cliffs near Oregon, Ogle county, Bebb.

DICKSONIA
punctilobula, Kunze.
Wabash county, Schneck.

OSMUNDA
regalis, L.
Wet woods. Infrequent.

cinnamomea, L.
Damp woods. Common near Chicago, Babcock; Kankakee county, Hill: Menard, Hall.

Claytoniana, L.
Moist ravines. Common.

BOTRYCHIUM
Virginicum, Swartz.
Rich woods. Frequent.

lunarioides, Swarts, var. obliquum.
Woods. S. Ill., Vasey, Schneck.

OPHIOGLOSSUM
vulgatum, L.
Wabash county, (a single plant), Schneck.

LYCOPODIACEÆ.

LYCOPODIUM
lucidulum, Michx. N.
Damp woods. Evanston, Cook county, Vasey; Ogle, Bebb.

Selago, L. N.
"Collected by J. W. Powell near Ottawa"–Vasey.

SELAGINELLA
rupestris, Spring.
Dry rocks and barrens. Henderson county; Ogle, Bebb. Rare, or overlooked.

apus, Spring.
Low, shady places. Scarce.

ISOETES
melanopoda, J. Gay. C. & N.
Wet prairies and ponds. Menard county, Hall: Fulton, Wolf; McHenry, Vasey.

HYDROPTERIDES.

AZOLLA
Caroliniana, Willd. C. & S.
Ponds, from Henderson and Peoria counties southward. Scarce.

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